

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022420\
 Data File : VD065294.D
 Acq On : 24 Feb 2020 14:59
 Operator : VA/SY
 Sample : L1635-13MSD
 Misc : 6.42G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MSD

Quant Time: Feb 25 01:23:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	3658	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	6079	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	6601	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	2988	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	5004	152.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	304.12%	
35) Dibromofluoromethane	7.91	113	3226	87.03	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	174.06%	
50) Toluene-d8	10.34	98	7578	53.48	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.96%	
62) 4-Bromofluorobenzene	12.64	95	2853	63.56	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	127.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	1295	42.209	ug/l	82
3) Chloromethane	2.20	50	1516	38.821	ug/l	93
4) Vinyl Chloride	2.35	62	1460	36.766	ug/l #	86
5) Bromomethane	2.77	94	1631	67.931	ug/l #	76
6) Chloroethane	2.93	64	1510	62.296	ug/l	97
7) Trichlorofluoromethane	3.27	101	2879	50.640	ug/l #	71
8) Diethyl Ether	3.72	74	2523	147.019	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.08	101	382	10.640	ug/l #	18
10) Methyl Iodide	4.32	142	1547	41.500	ug/l #	81
11) Tert butyl alcohol	5.22	59	5141	2614.372	ug/l #	85
12) 1,1-Dichloroethene	4.06	96	563	16.600	ug/l #	41
14) Allvl chloride	4.71	41	1392	25.275	ug/l #	72
15) Acrylonitrile	5.43	53	9326	1227.460	ug/l #	73
16) Acetone	4.17	43	12594	1565.591	ug/l	90
18) Methyl Acetate	4.72	43	13746	759.776	ug/l	96
19) Methyl tert-butyl Ether	5.48	73	11984	169.446	ug/l	93
20) Methylene Chloride	4.97	84	4192	123.867	ug/l #	77
21) trans-1,2-Dichloroethene	5.47	96	2233	57.917	ug/l #	80
22) Diisopropyl ether	6.37	45	9258	87.198	ug/l #	92
23) Vinyl Acetate	6.36	43	6015	102.764	ug/l #	72
24) 1,1-Dichloroethane	6.27	63	4880	74.102	ug/l #	89
25) 2-Butanone	7.21	43	6644	652.798	ug/l #	77
26) 2,2-Dichloropropane	7.20	77	1436	25.132	ug/l	79
27) cis-1,2-Dichloroethene	7.21	96	3002	73.507	ug/l	77
28) Bromochloromethane	7.56	49	3723	152.383	ug/l #	99
29) Tetrahydrofuran	7.57	42	12017	2015.136	ug/l	95
30) Chloroform	7.71	83	5235	78.903	ug/l	91
31) Cyclohexane	8.00	56	1644	25.408	ug/l #	71
32) 1,1,1-Trichloroethane	7.91	97	3078	51.852	ug/l	94
36) 1,1-Dichloropropene	8.12	75	2097	35.453	ug/l #	70
37) Ethyl Acetate	7.21	43	6644	268.694	ug/l #	29
38) Carbon Tetrachloride	8.10	117	1757	29.180	ug/l #	90
39) Methylcyclohexane	9.36	83	1183	17.012	ug/l #	63
40) Benzene	8.35	78	9377	56.165	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.57	41	9298	651.246	ug/l #	49
42) 1,2-Dichloroethane	8.43	62	5885	128.219	ug/l	77
43) Isopropyl Acetate	8.47	43	518	11.520	ug/l #	51
44) Trichloroethene	9.11	130	2474	53.458	ug/l	59
45) 1,2-Dichloropropane	9.38	63	3049	73.444	ug/l #	82
46) Dibromomethane	9.47	93	3369	157.725	ug/l	94
47) Bromodichloromethane	9.67	83	4630	82.251	ug/l	99
48) Methyl methacrylate	9.46	41	2995	144.099	ug/l	94
49) 1,4-Dioxane	9.46	88	2071	8266.789	ug/l #	90
51) 4-Methyl-2-Pentanone	10.23	43	22717	994.683	ug/l	96
52) Toluene	10.41	92	4320	41.803	ug/l	94
53) t-1,3-Dichloropropene	10.63	75	2538	48.642	ug/l	91
54) cis-1,3-Dichloropropene	10.10	75	2027	32.172	ug/l #	80
55) 1,1,2-Trichloroethane	10.80	97	4536	150.877	ug/l	93
57) 1,3-Dichloropropane	10.96	76	6787	132.640	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.95	63	3595	328.605	ug/l	97
59) 2-Hexanone	10.99	43	7980	488.113	ug/l	90
60) Dibromochloromethane	11.14	129	4299	111.721	ug/l	96
61) 1,2-Dibromoethane	11.26	107	4279	150.323	ug/l	94
64) Tetrachloroethene	10.88	164	2294	49.000	ug/l	96
65) Chlorobenzene	11.68	112	5614	42.381	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.74	131	3347	67.708	ug/l	92
67) Ethyl Benzene	11.74	91	5979	25.772	ug/l	90
68) m/p-Xylenes	11.86	106	4628	52.140	ug/l	88
69) o-Xylene	12.18	106	2370	30.138	ug/l	88
70) Styrene	12.20	104	2143	15.349	ug/l #	80
71) Bromoform	12.37	173	2869	104.592	ug/l #	97
73) Isopropylbenzene	12.48	105	4534	22.920	ug/l	91
74) N-amyl acetate	12.42	43	109	2.480	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.74	83	6496	181.950	ug/l	97
76) 1,2,3-Trichloropropane	12.79	75	6552	257.722	ug/l #	100
77) Bromobenzene	12.77	156	2508	51.056	ug/l	70
78) n-propylbenzene	12.83	91	4118	17.323	ug/l	94
79) 2-Chlorotoluene	12.91	91	3911	29.367	ug/l	98
80) 1,3,5-Trimethylbenzene	12.97	105	3553	21.807	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.53	75	281	23.866	ug/l #	68
82) 4-Chlorotoluene	13.01	91	3609	25.526	ug/l	93
83) tert-Butylbenzene	13.23	119	2745	20.102	ug/l	91
84) 1,2,4-Trimethylbenzene	13.28	105	3804	23.326	ug/l	96
85) sec-Butylbenzene	13.41	105	3086	15.683	ug/l	98
86) p-Isopropyltoluene	13.53	119	1952	10.848	ug/l	88
87) 1,3-Dichlorobenzene	13.52	146	3365	35.435	ug/l	95
88) 1,4-Dichlorobenzene	13.61	146	3154	33.652	ug/l	94
89) n-Butylbenzene	13.85	91	2213	13.346	ug/l	89
90) Hexachloroethane	14.13	117	881	24.112	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	3415	41.882	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.52	75	1386	251.915	ug/l	82
93) 1,2,4-Trichlorobenzene	15.17	180	1712	32.098	ug/l #	72
94) Hexachlorobutadiene	15.28	225	314	9.178	ug/l #	64
95) Naphthalene	15.41	128	5838	67.330	ug/l #	94

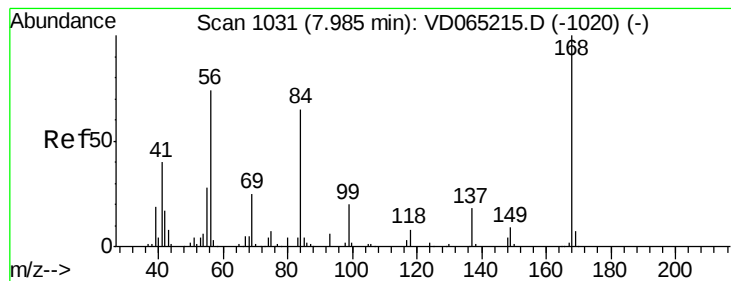
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD022420\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2,3-Trichlorobenzene	15.61	180	1620	34.777	ug/l	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

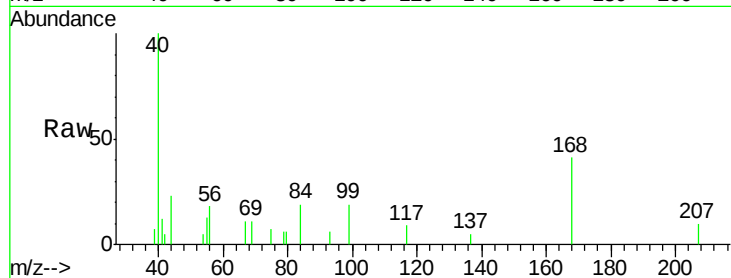
LIED-TS001-01MSD

Tot Ion:168 Resp: 3658

Ion Ratio Lower Upper

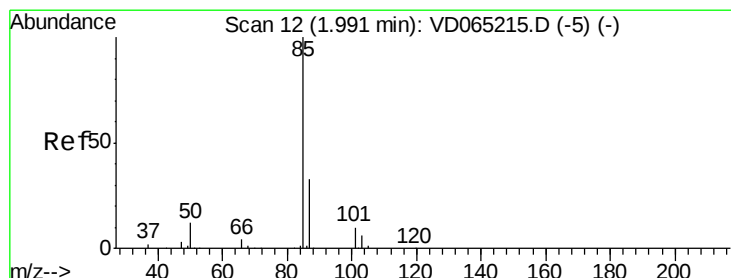
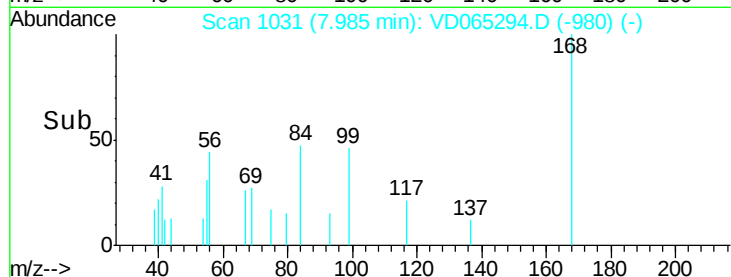
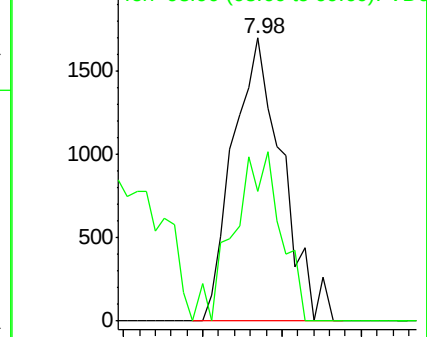
168 100

99 45.8 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 42.209 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065294.D

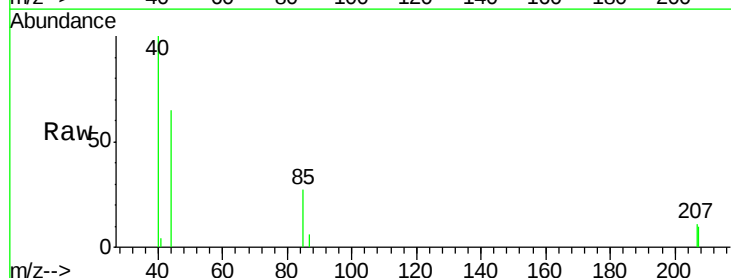
Acq: 24 Feb 2020 14:59

Tgt Ion: 85 Resp: 1295

Ion Ratio Lower Upper

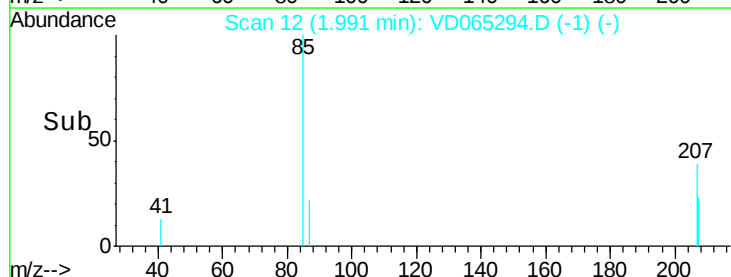
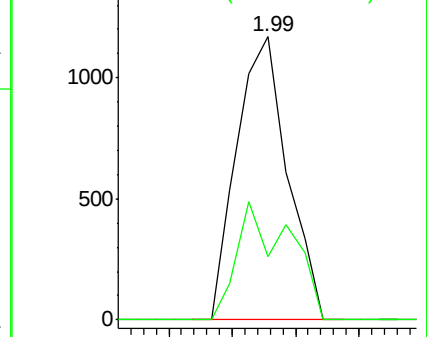
85 100

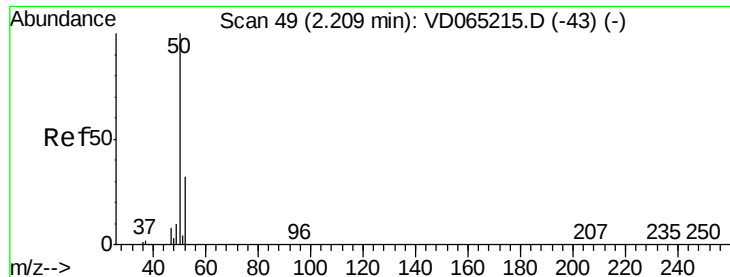
87 22.4 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 38.821 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

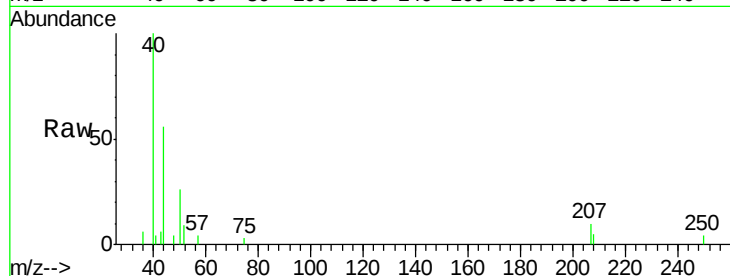
LIED-TS001-01MSD

Tot Ion: 50 Resp: 1516

Ion Ratio Lower Upper

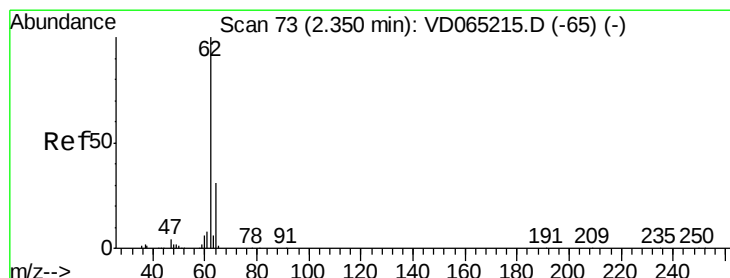
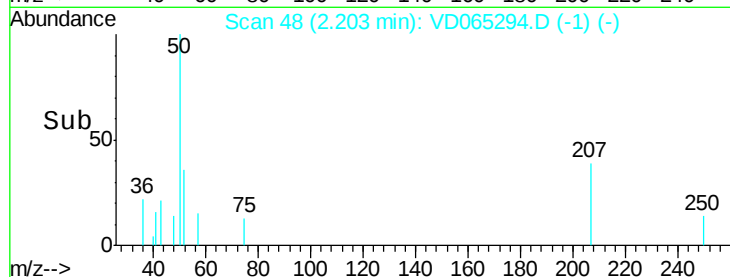
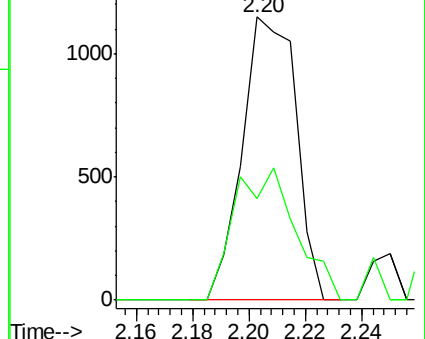
50 100

52 36.0 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 36.766 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065294.D

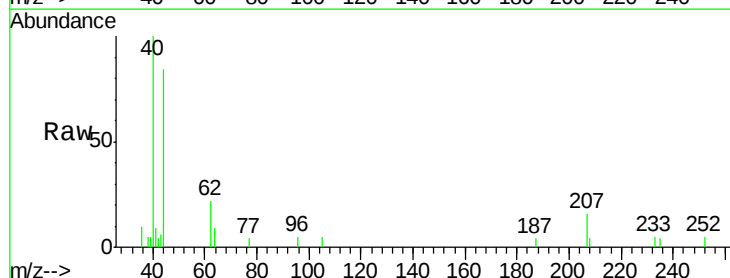
Acq: 24 Feb 2020 14:59

Tgt Ion: 62 Resp: 1460

Ion Ratio Lower Upper

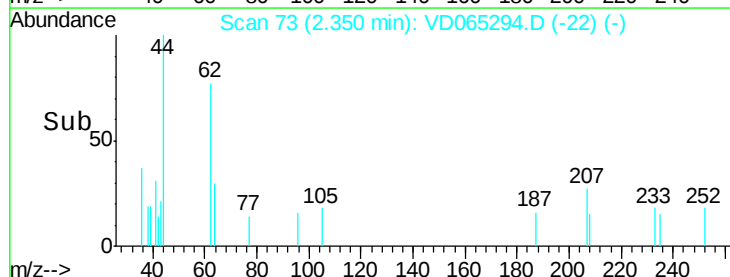
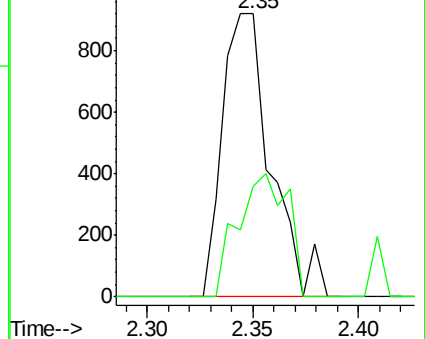
62 100

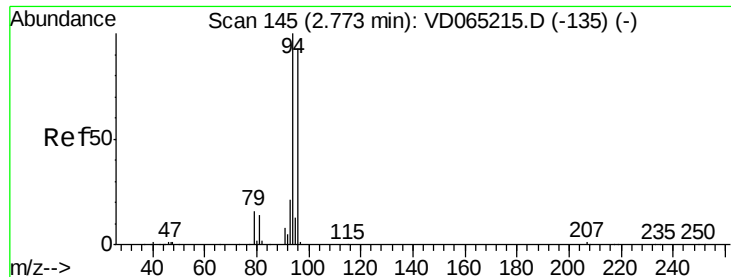
64 39.2 25.0 37.6#



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 67.931 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

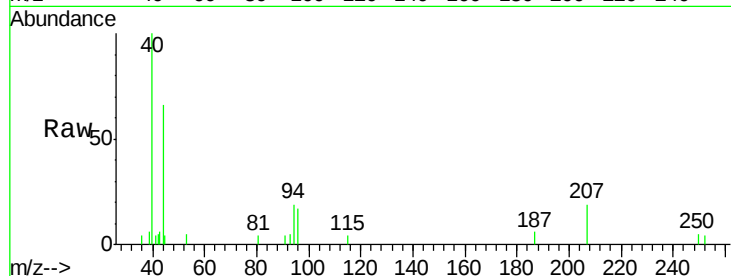
LIED-TS001-01MSD

Tot Ion: 94 Resp: 1631

Ion Ratio Lower Upper

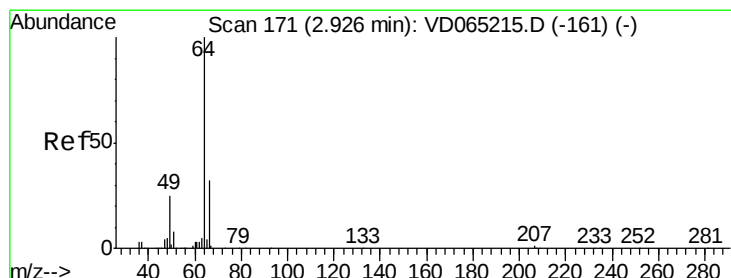
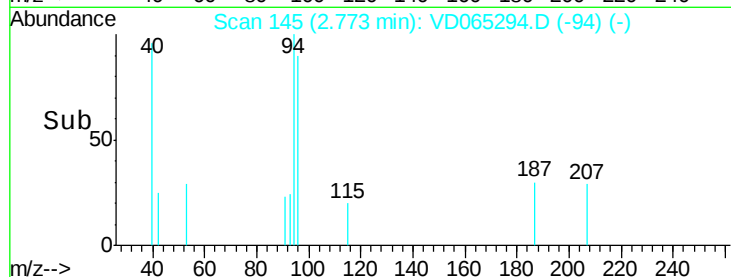
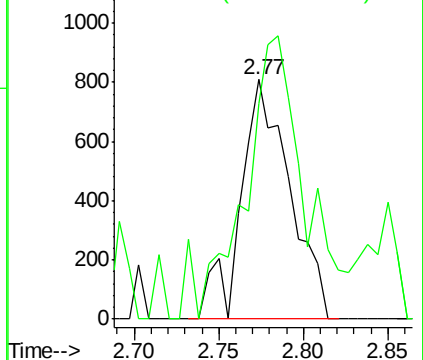
94 100

96 69.8 74.2 111.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 62.296 ug/l

RT: 2.93 min Scan# 172

Delta R.T. 0.01 min

Lab File: VD065294.D

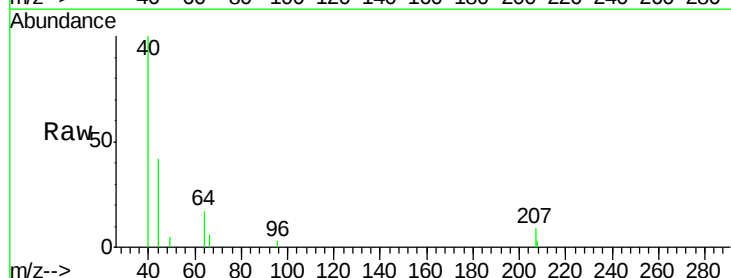
Acq: 24 Feb 2020 14:59

Tgt Ion: 64 Resp: 1510

Ion Ratio Lower Upper

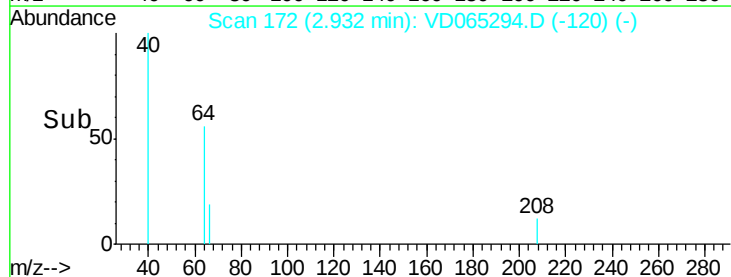
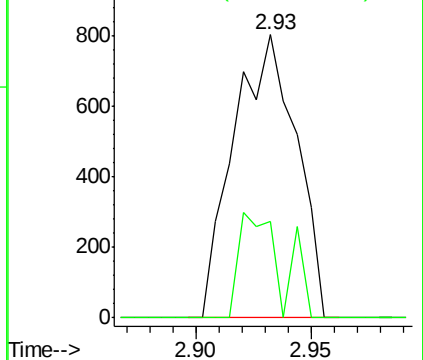
64 100

66 33.9 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



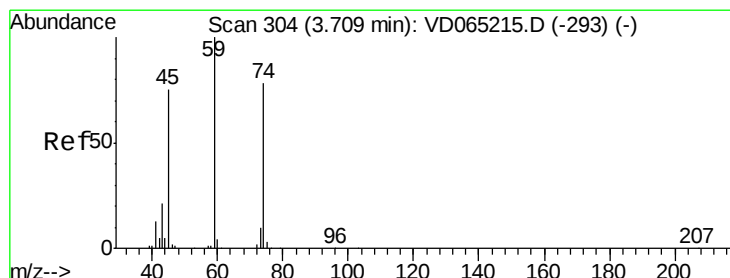
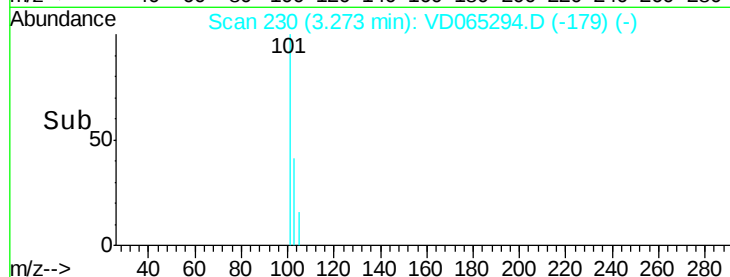
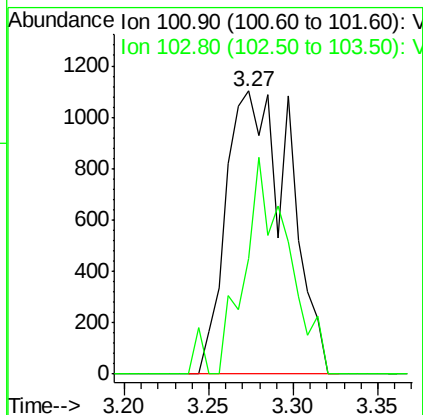
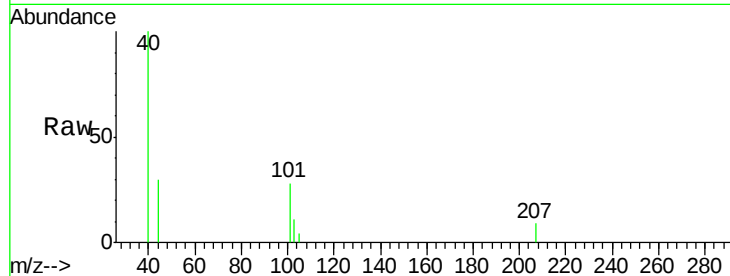


#7

Trichlorofluoromethane
 Concen: 50.640 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.00 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Instrument :
 MSVOA_D
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 LIED-TS001-01MSD

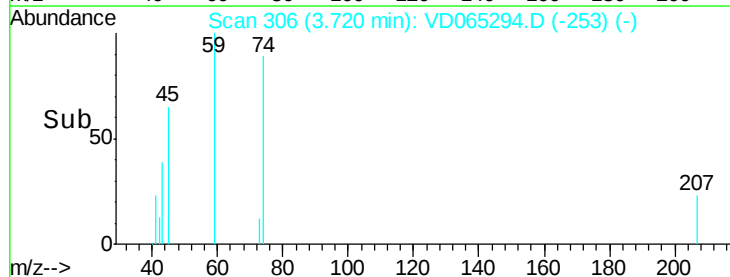
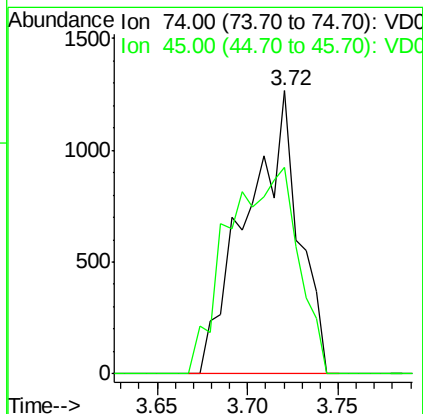
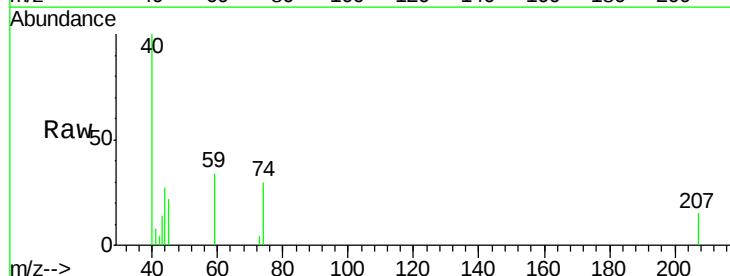
Tot Ion:101 Resp: 2879
 Ion Ratio Lower Upper
 101 100
 103 40.8 50.7 76.1#



#8

Diethyl Ether
 Concen: 147.019 ug/l
 RT: 3.72 min Scan# 306
 Delta R.T. 0.01 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Tgt Ion: 74 Resp: 2523
 Ion Ratio Lower Upper
 74 100
 45 98.2 50.0 149.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.640 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MSD

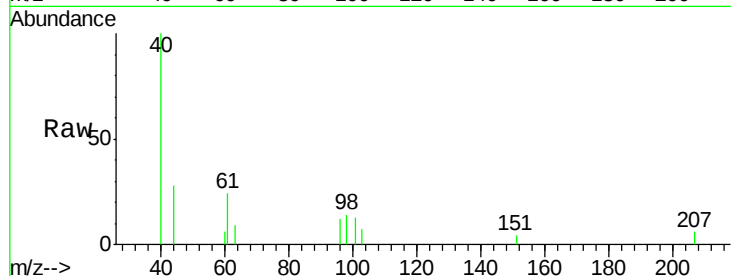
Tot Ion:101 Resp: 382

Ion Ratio Lower Upper

101 100

85 0.0 34.2 51.2#

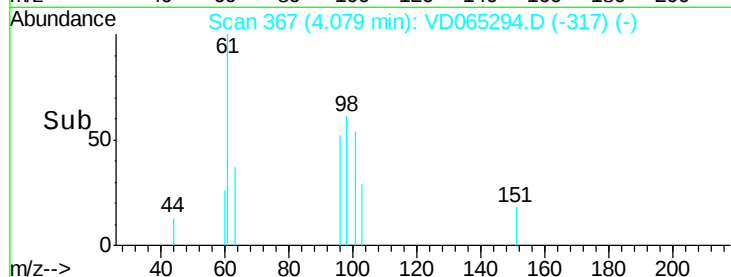
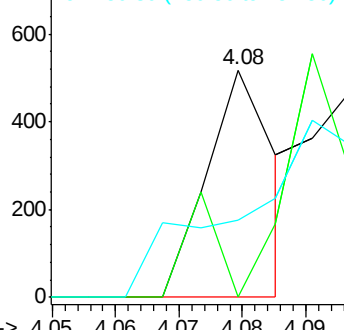
151 0.0 63.5 95.3#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 41.500 ug/l

RT: 4.32 min Scan# 408

Delta R.T. 0.02 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

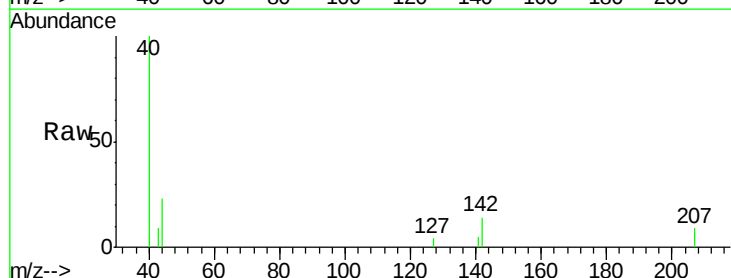
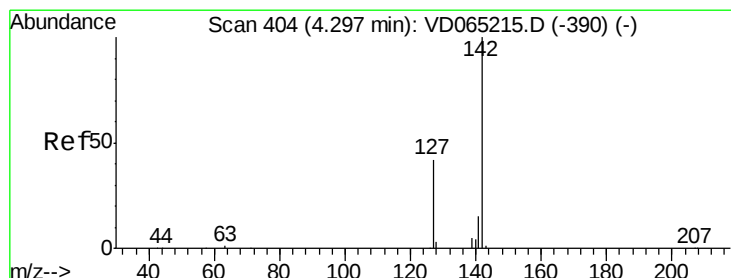
Tgt Ion:142 Resp: 1547

Ion Ratio Lower Upper

142 100

127 31.6 33.8 50.8#

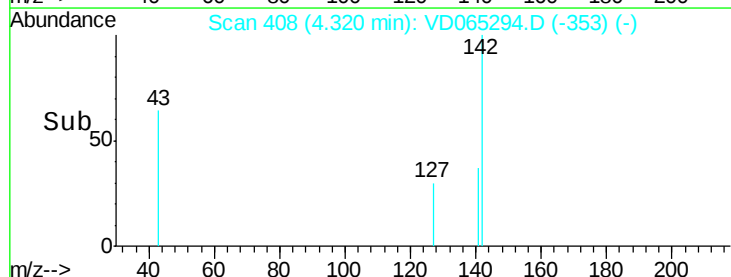
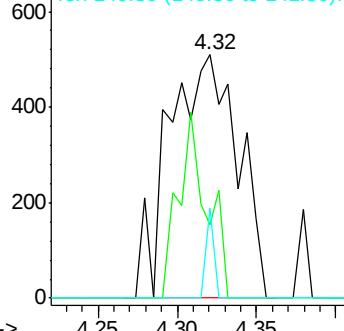
141 4.3 11.7 17.5#

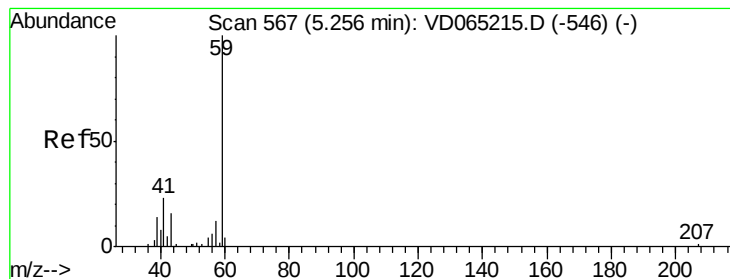


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



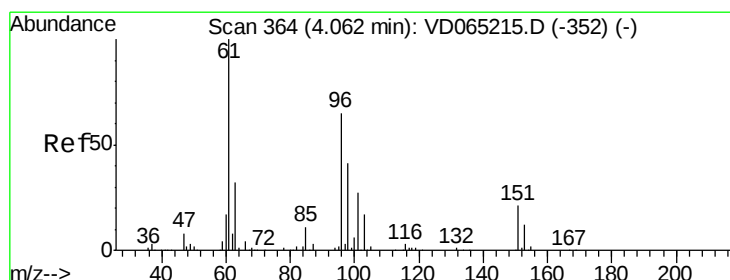
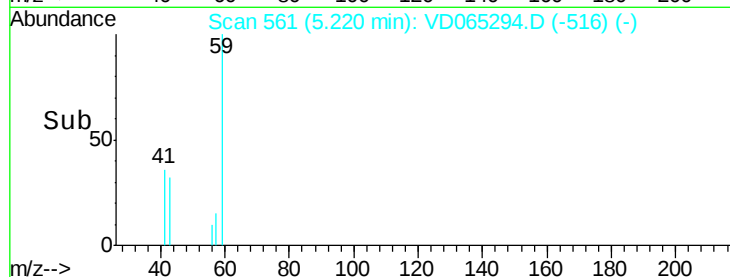
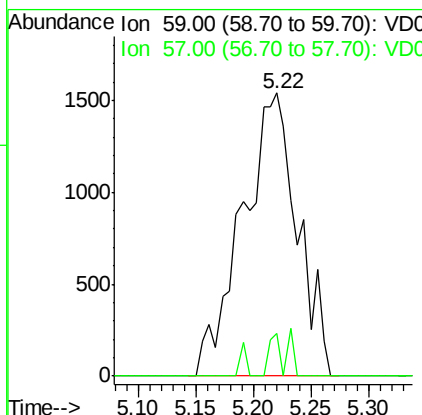
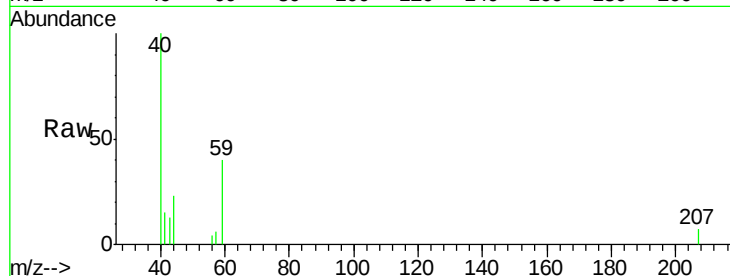


#11

Tert butyl alcohol
Concen: 2614.372 ug/l
RT: 5.22 min Scan# 561
Delta R.T. -0.04 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

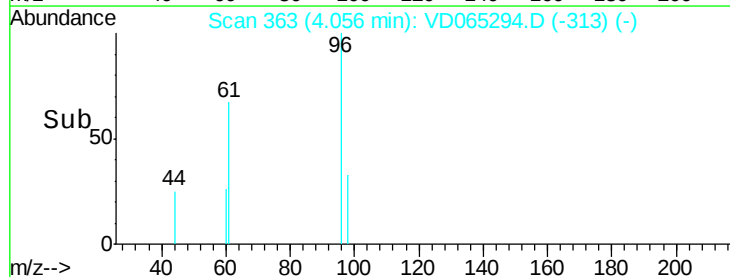
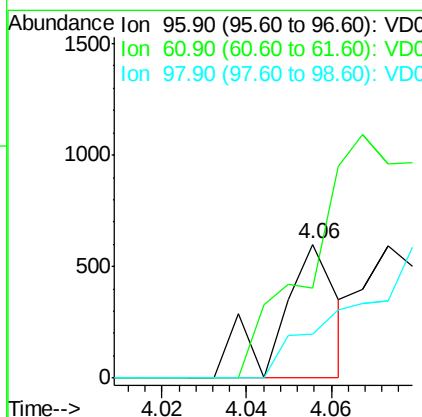
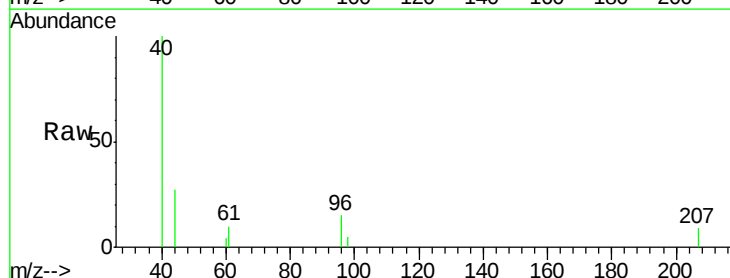
Tot Ion: 59 Resp: 5141
Ion Ratio Lower Upper
59 100
57 4.7 8.4 12.6#

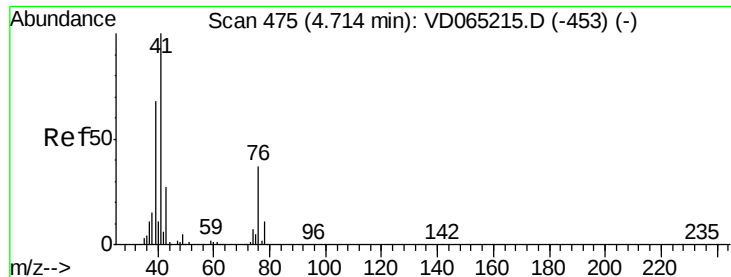


#12

1,1-Dichloroethene
Concen: 16.600 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 96 Resp: 563
Ion Ratio Lower Upper
96 100
61 67.2 123.3 184.9#
98 32.8 51.0 76.4#

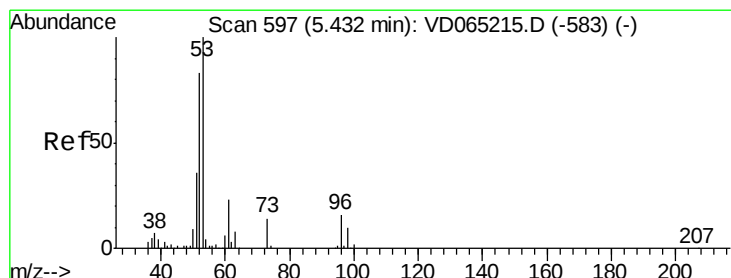
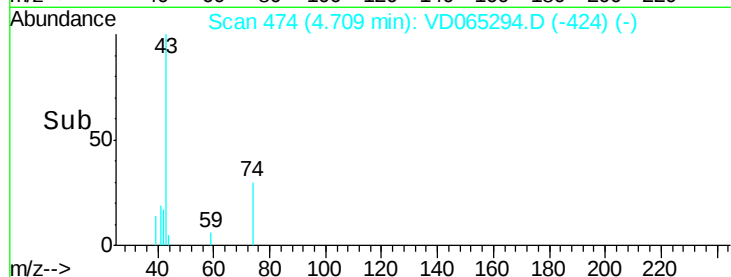
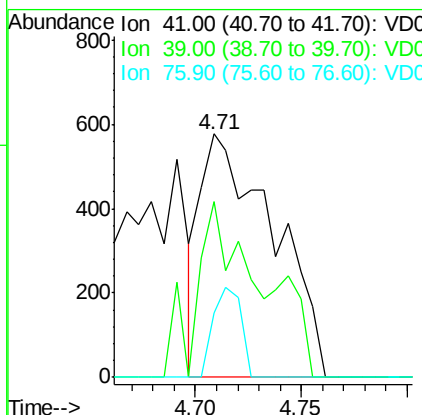
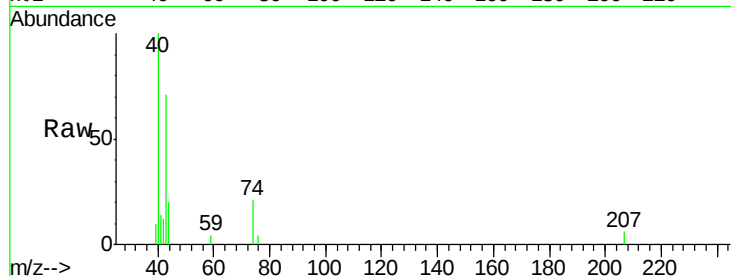




#14
 Allvl chloride
 Concen: 25.275 ug/l
 RT: 4.71 min Scan# 474
 Delta R.T. -0.01 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

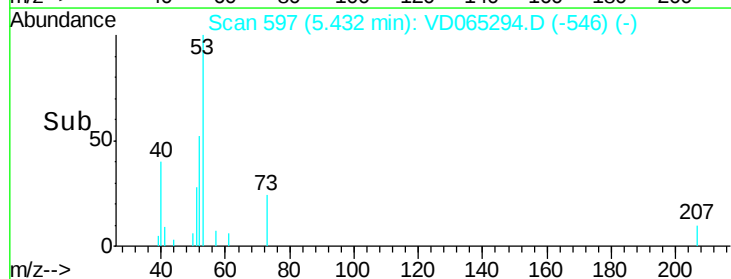
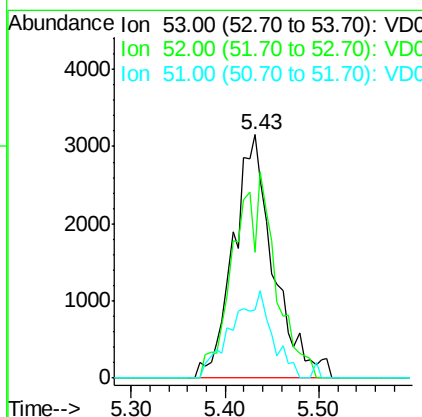
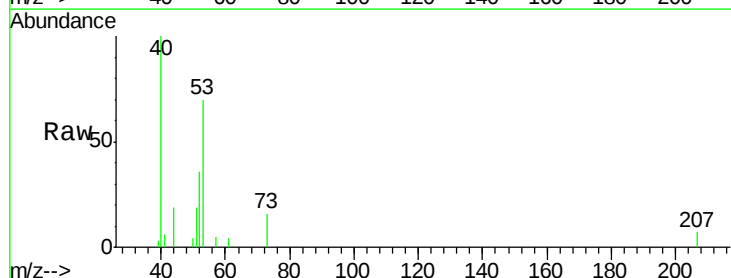
Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MSD

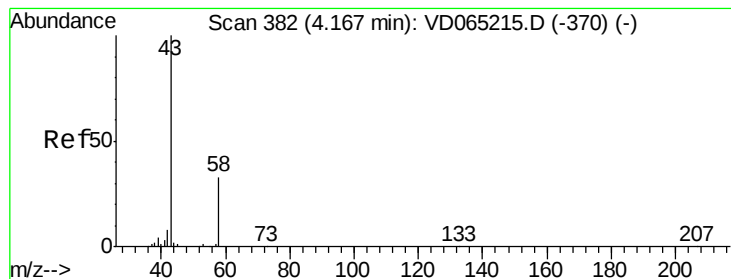
Tot Ion	Ratio	Lower	Upper
41	100		
39	48.6	53.8	80.6#
76	14.2	28.7	43.1#



#15
 Acrylonitrile
 Concen: 1227.460 ug/l
 RT: 5.43 min Scan# 597
 Delta R.T. 0.00 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Tgt Ion	Ratio	Lower	Upper
53	100		
52	47.7	65.4	98.2#
51	36.0	29.5	44.3





#16

Acetone

Concen: 1565.591 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

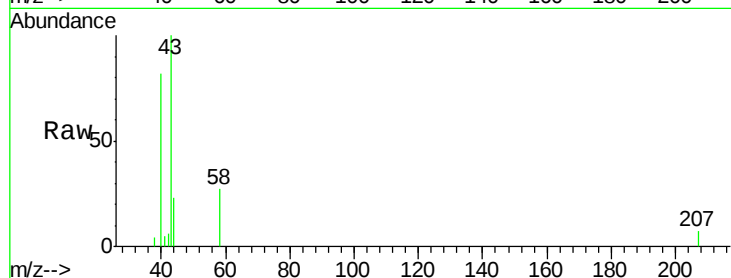
LIED-TS001-01MSD

Tot Ion: 43 Resp: 12594

Ion Ratio Lower Upper

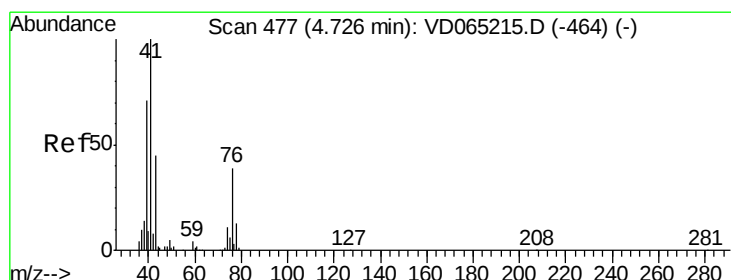
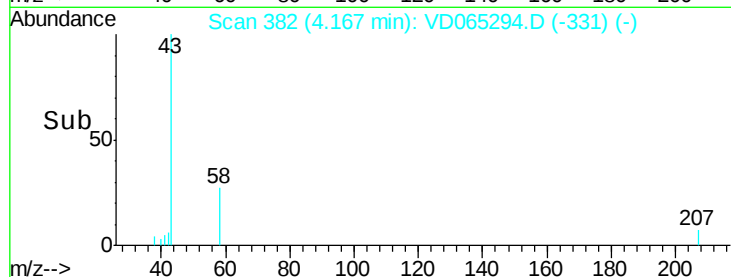
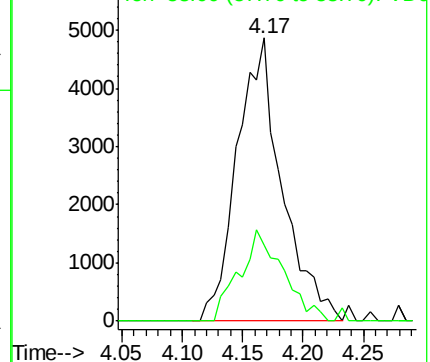
43 100

58 27.1 26.2 39.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 759.776 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD065294.D

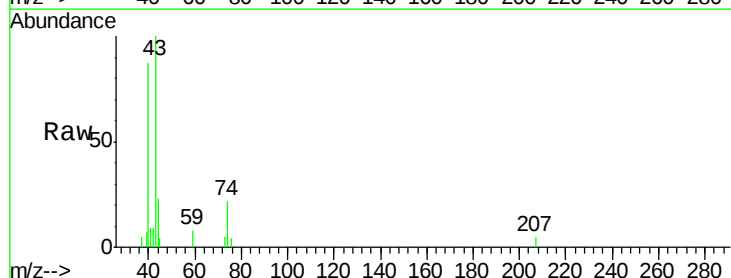
Acq: 24 Feb 2020 14:59

Tgt Ion: 43 Resp: 13746

Ion Ratio Lower Upper

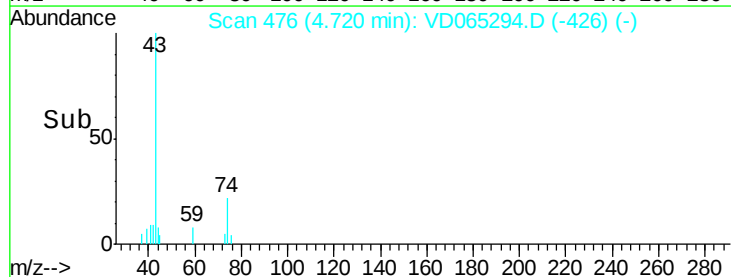
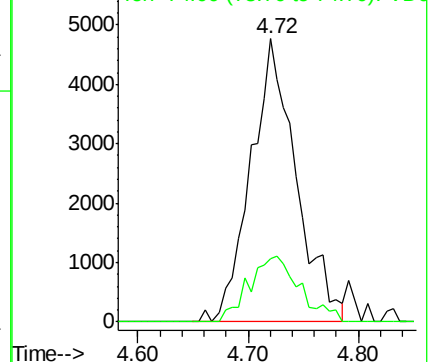
43 100

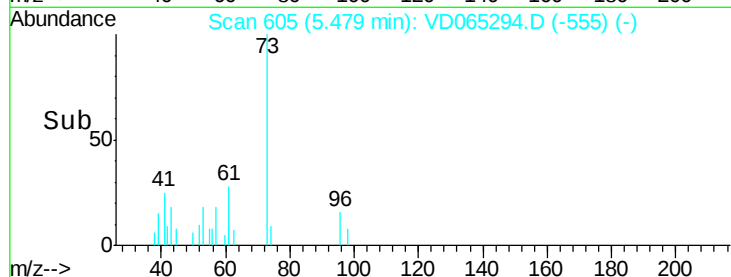
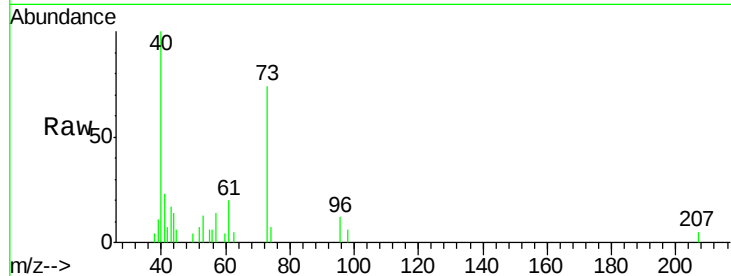
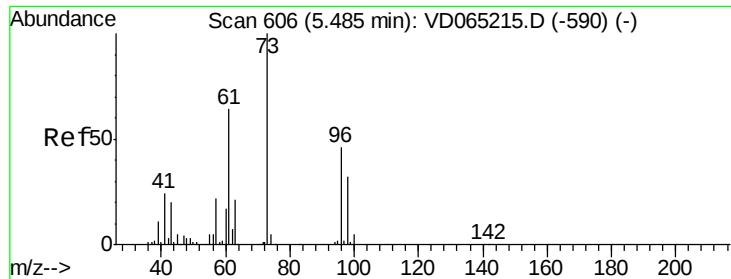
74 26.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

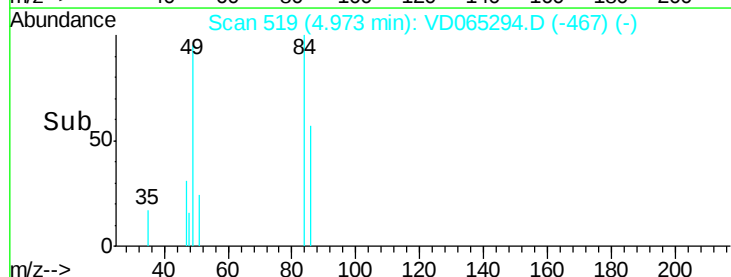
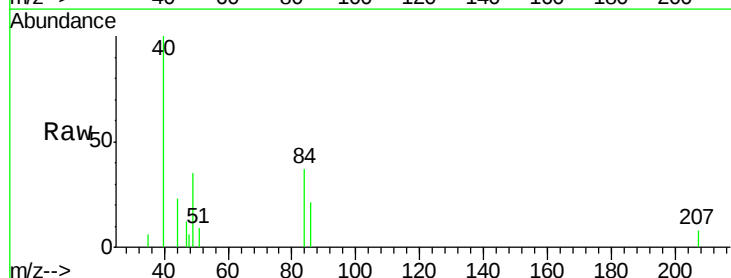
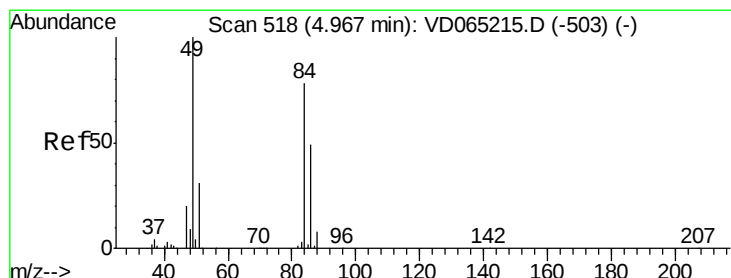
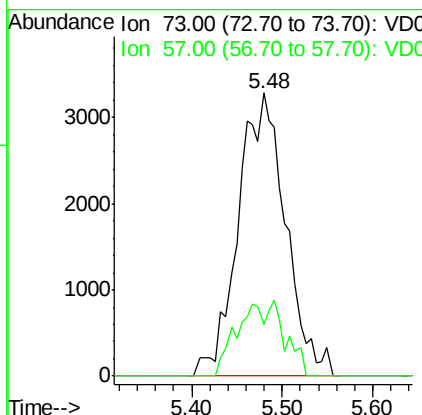




#19
Methyl tert-butyl Ether
Concen: 169.446 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

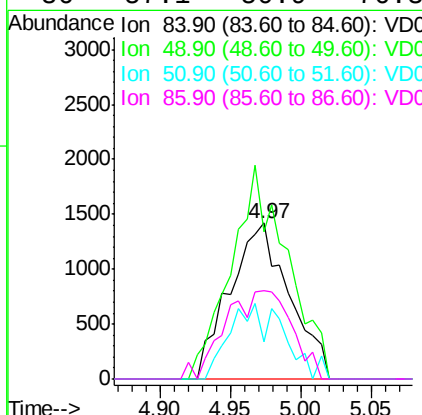
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

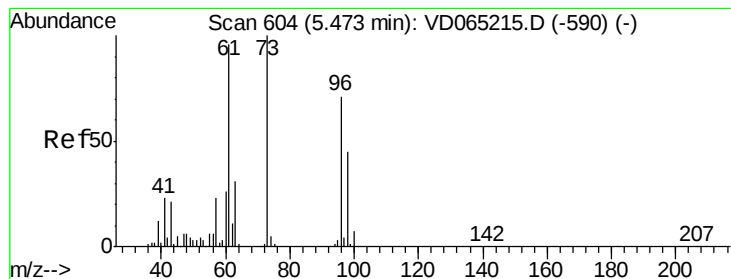
Tot Ion: 73 Resp: 11984
Ion Ratio Lower Upper
73 100
57 18.4 17.3 25.9



#20
Methylene Chloride
Concen: 123.867 ug/l
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 84 Resp: 4192
Ion Ratio Lower Upper
84 100
49 94.6 103.1 154.7#
51 24.0 31.7 47.5#
86 57.1 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 57.917 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MSD

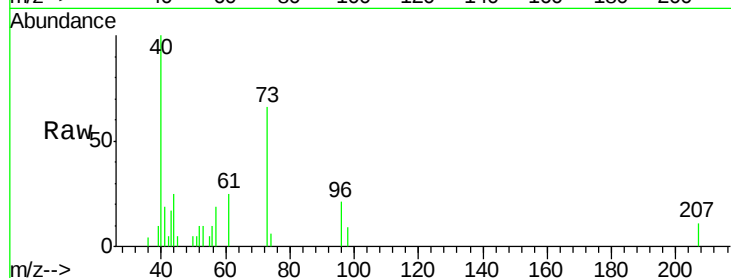
Tot Ion: 96 Resp: 2233

Ion Ratio Lower Upper

96 100

61 115.1 108.3 162.5

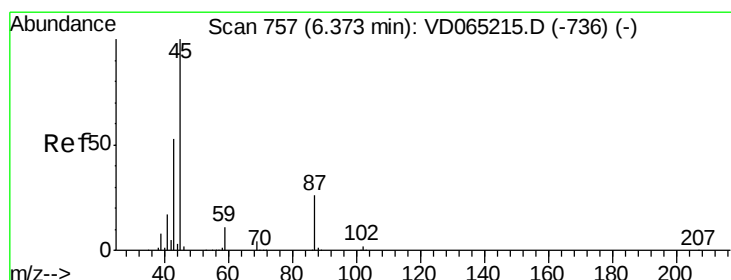
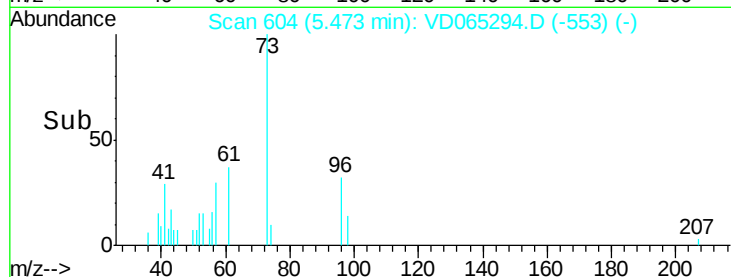
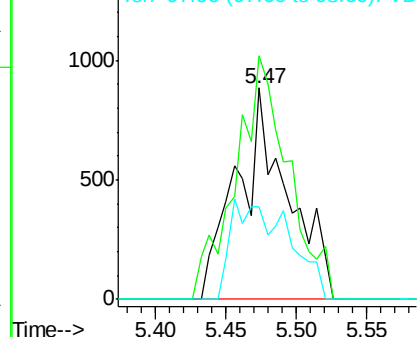
98 43.7 50.7 76.1#



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 87.198 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Tgt Ion: 45 Resp: 9258

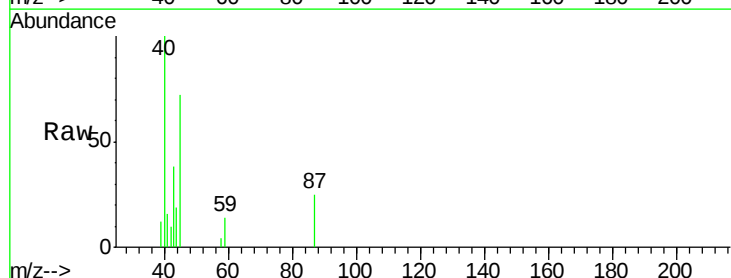
Ion Ratio Lower Upper

45 100

43 52.4 42.6 64.0

87 34.5 21.2 31.8#

59 19.0 8.9 13.3#

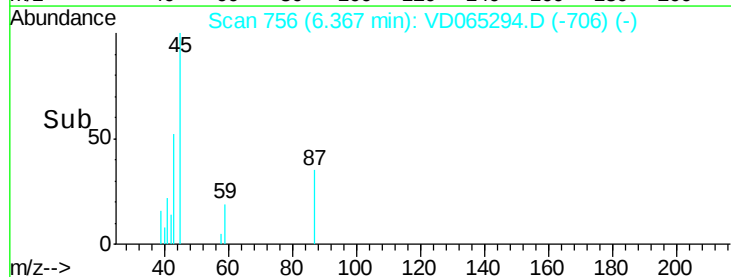
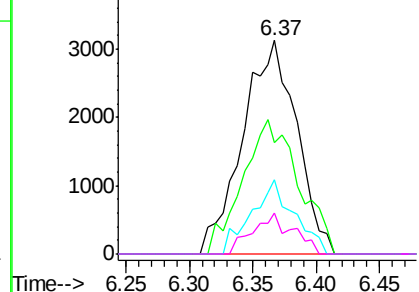


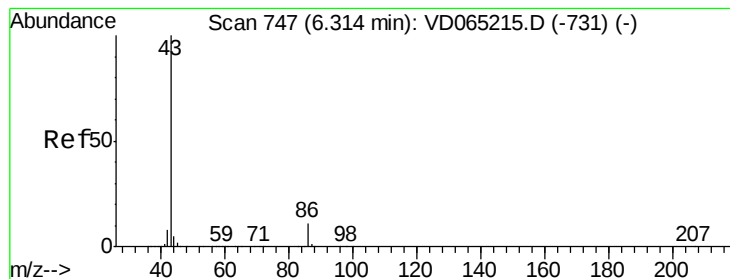
Abundance Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 102.764 ug/l

RT: 6.36 min Scan# 755

Delta R.T. 0.05 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

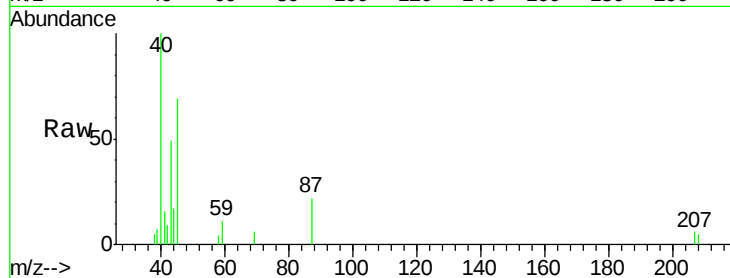
LIED-TS001-01MSD

Tot Ion: 43 Resp: 6015

Ion Ratio Lower Upper

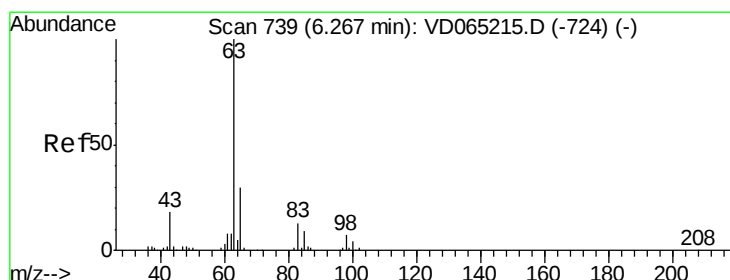
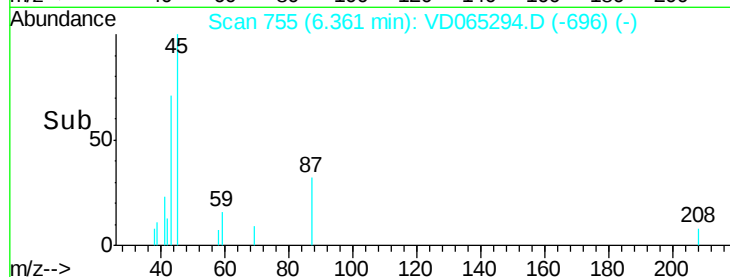
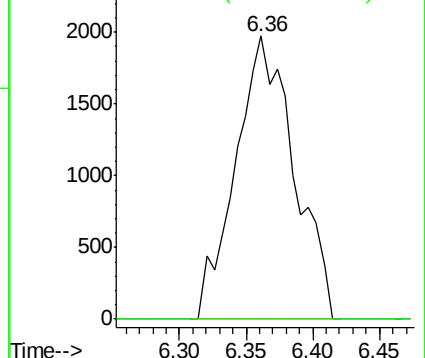
43 100

86 0.0 8.6 12.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 74.102 ug/l

RT: 6.27 min Scan# 740

Delta R.T. 0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

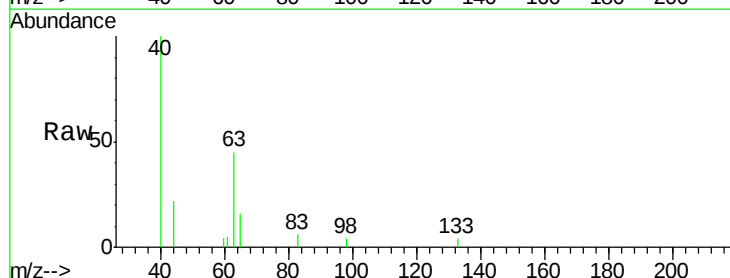
Tgt Ion: 63 Resp: 4880

Ion Ratio Lower Upper

63 100

98 9.7 3.4 10.1

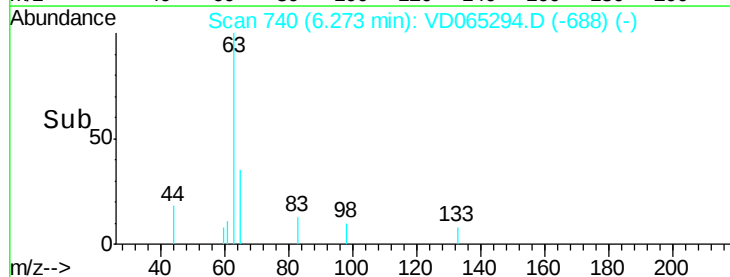
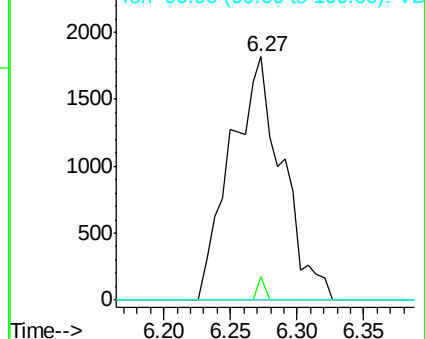
100 0.0 2.3 6.8#

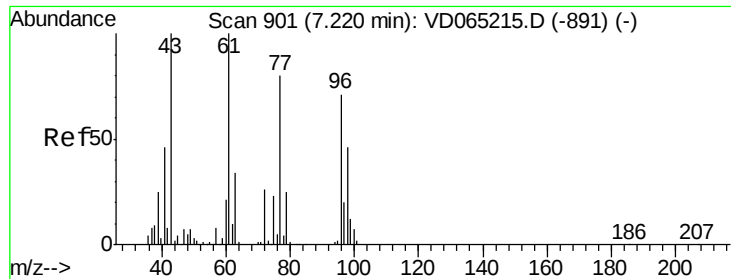


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 652.798 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

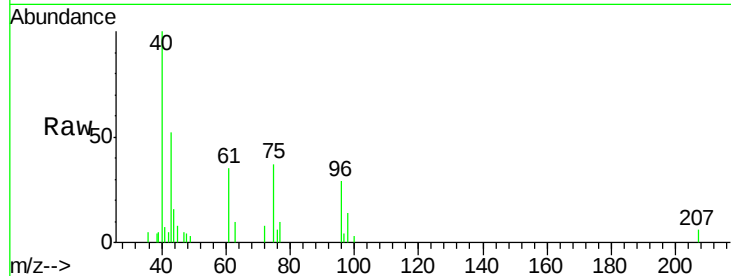
LIED-TS001-01MSD

Tot Ion: 43 Resp: 6644

Ion Ratio Lower Upper

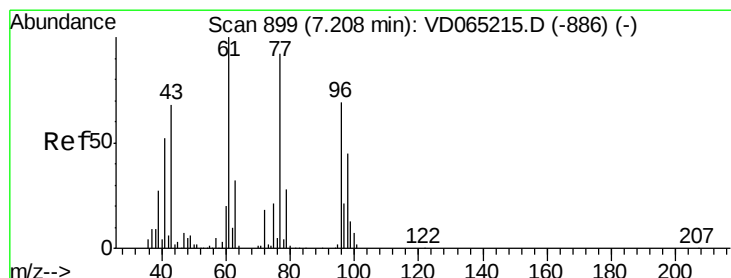
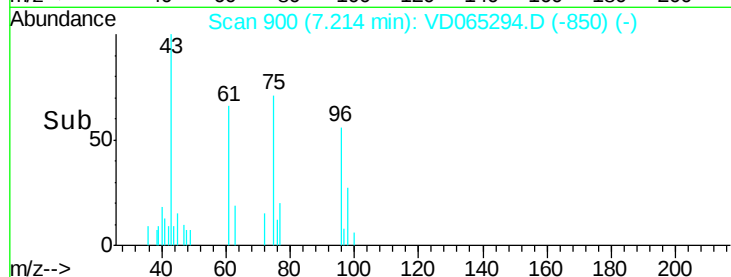
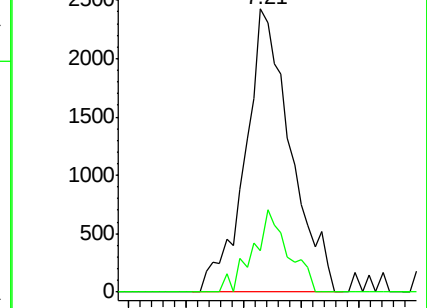
43 100

72 14.6 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 25.132 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD065294.D

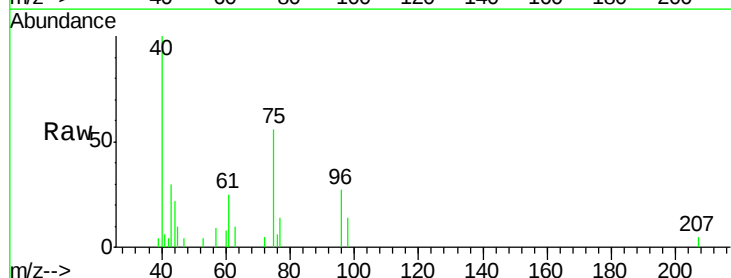
Acq: 24 Feb 2020 14:59

Tgt Ion: 77 Resp: 1436

Ion Ratio Lower Upper

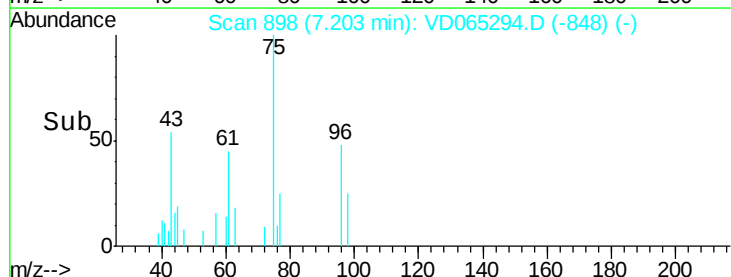
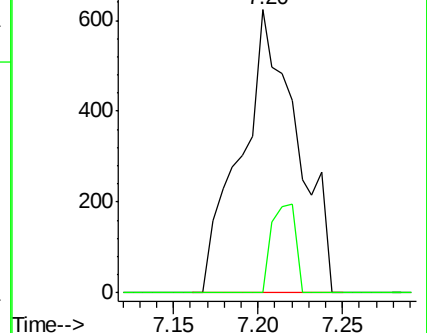
77 100

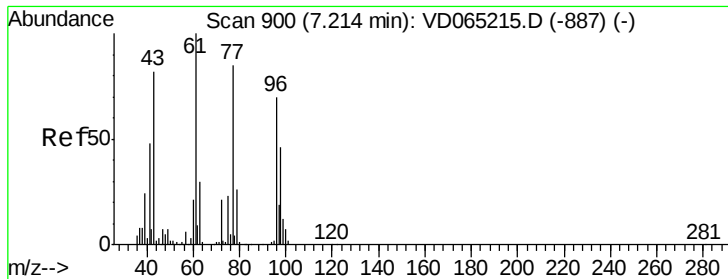
97 13.2 11.7 35.1



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC



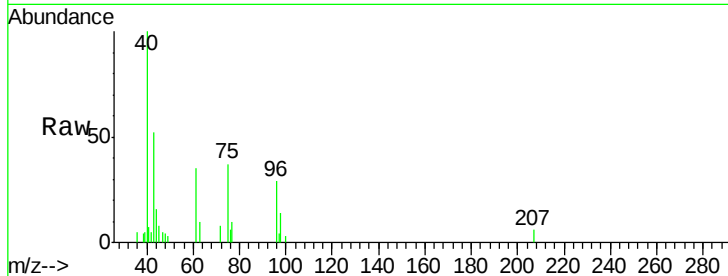


#27

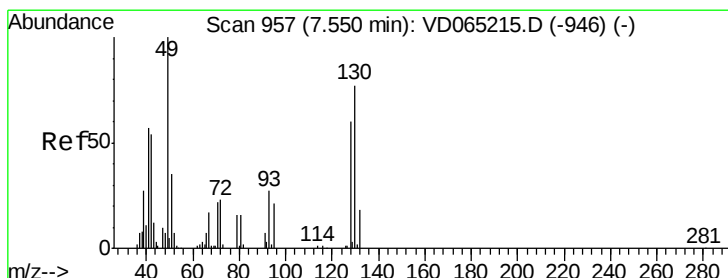
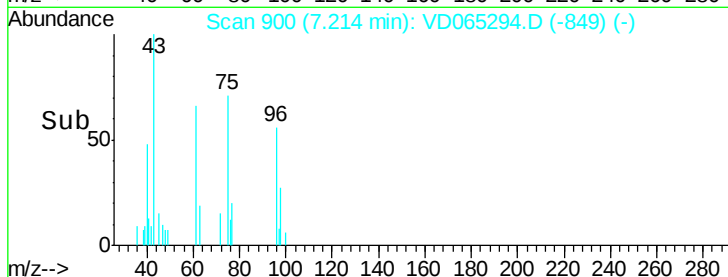
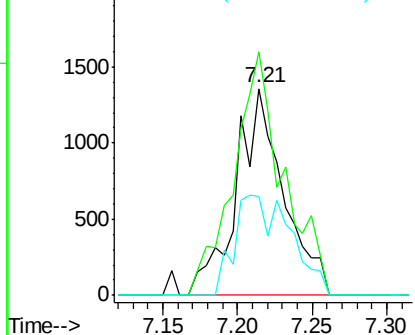
cis-1,2-Dichloroethene
 Concen: 73.507 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MSD

Tot Ion	Ratio	Lower	Upper
96	100		
61	123.4	0.0	286.0
98	33.2	0.0	127.8



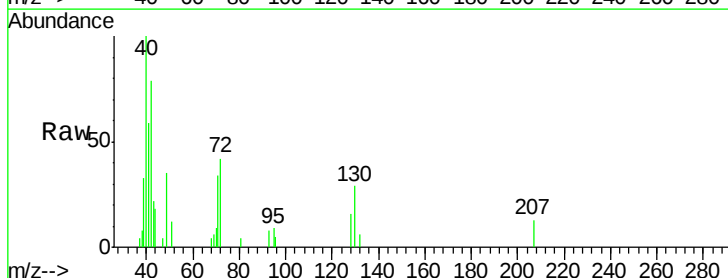
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 97.90 (97.60 to 98.60): VDC



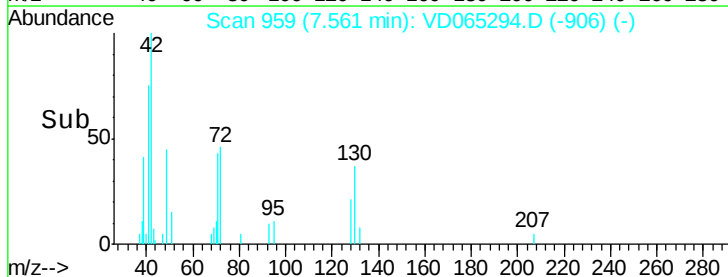
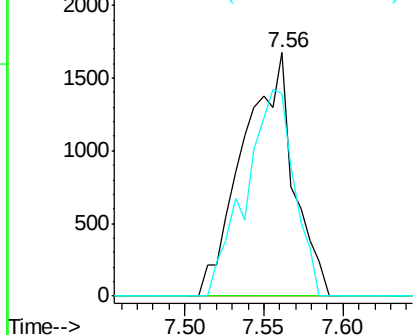
#28

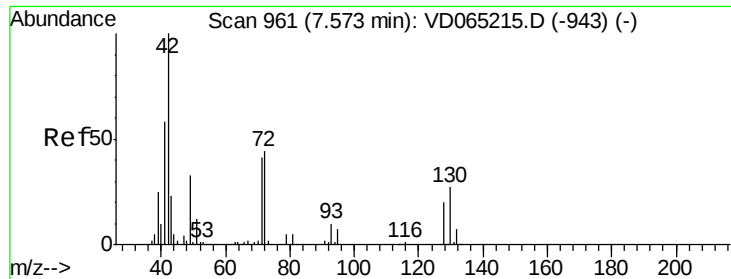
Bromochloromethane
 Concen: 152.383 ug/l
 RT: 7.56 min Scan# 959
 Delta R.T. 0.01 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	81.3	64.7	97.1



Abundance Ion 48.90 (48.60 to 49.60): VDC
 Ion 128.80 (128.50 to 129.50): VDC
 Ion 129.80 (129.50 to 130.50): VDC

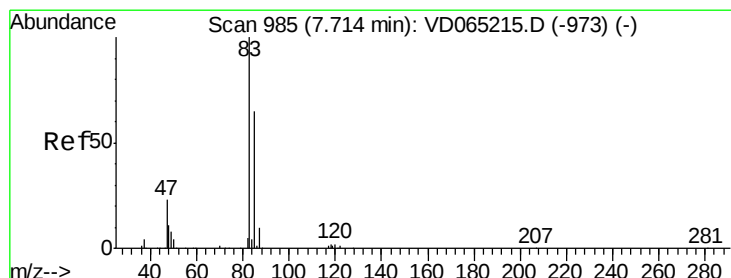
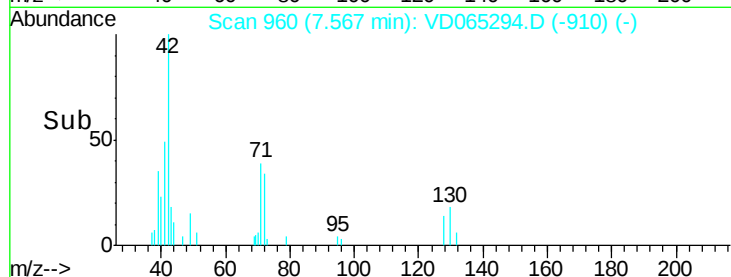
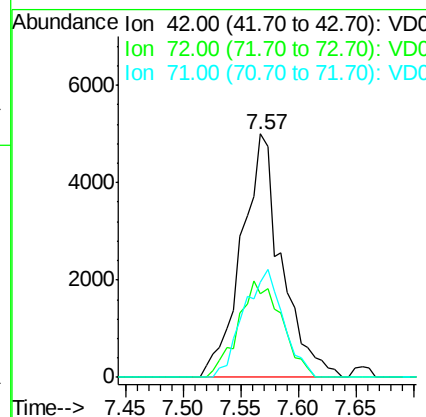
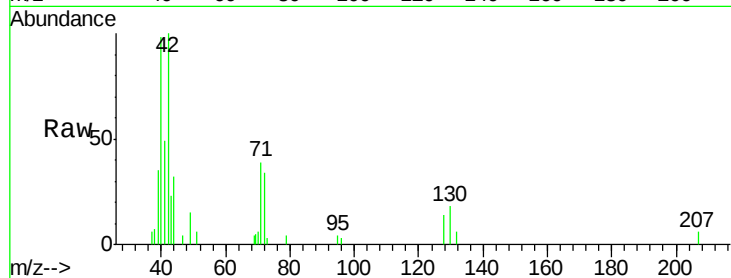




#29
Tetrahydrofuran
Concen: 2015.136 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

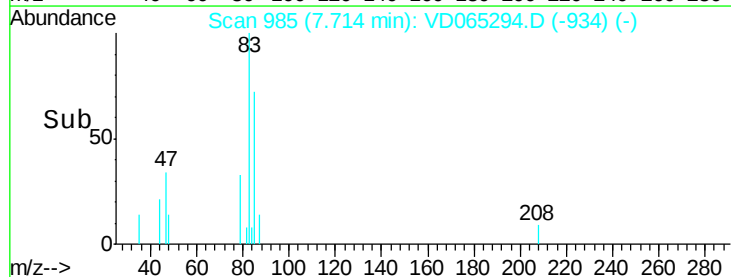
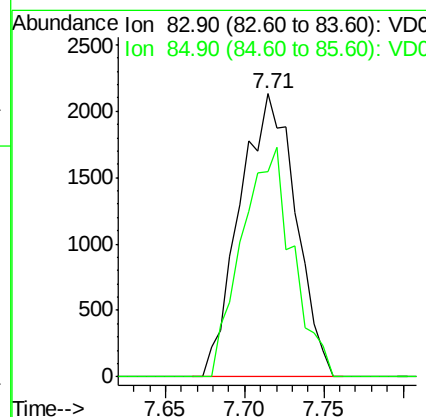
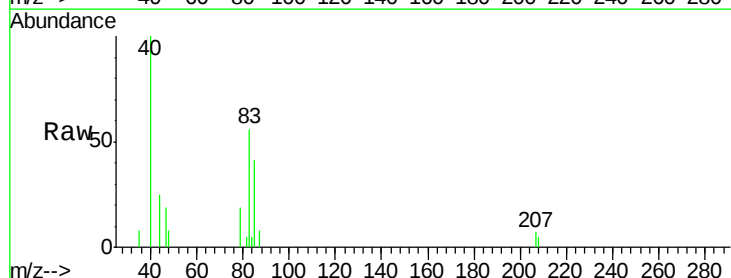
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

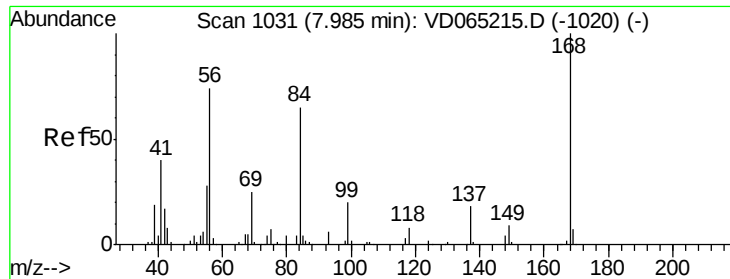
Tot Ion: 42 Resp: 12017
Ion Ratio Lower Upper
42 100
72 43.0 33.7 50.5
71 44.1 31.4 47.2



#30
Chloroform
Concen: 78.903 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 83 Resp: 5235
Ion Ratio Lower Upper
83 100
85 72.3 52.3 78.5

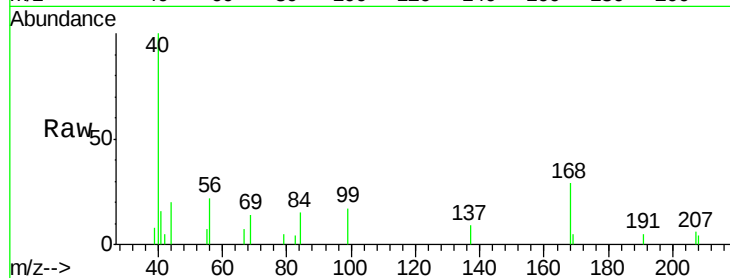




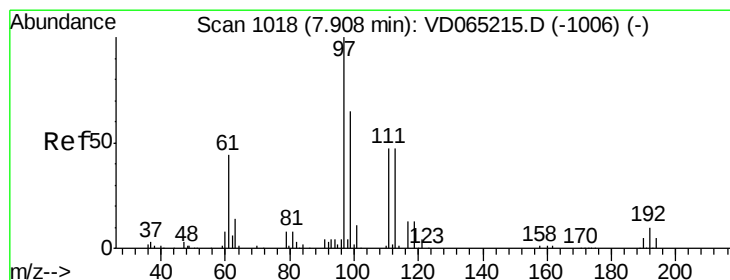
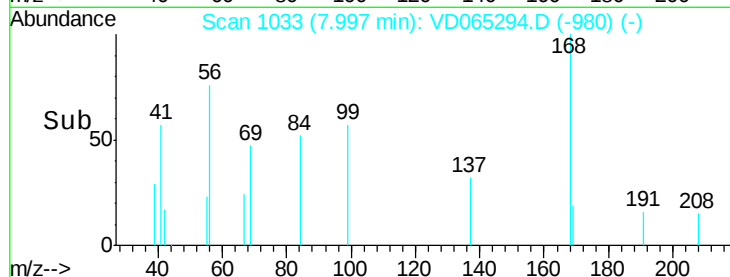
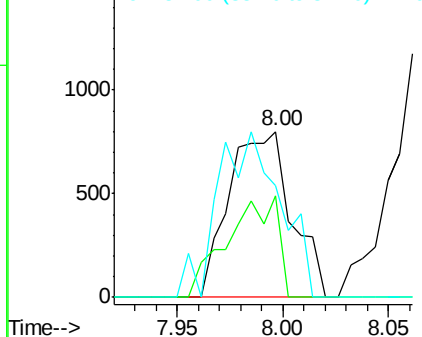
#31
Cyclohexane
Concen: 25.408 ug/l
RT: 8.00 min Scan# 1033
Delta R.T. 0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

Tot Ion: 56 Resp: 1644
Ion Ratio Lower Upper
56 100
69 61.3 27.4 41.0#
84 67.8 71.1 106.7#

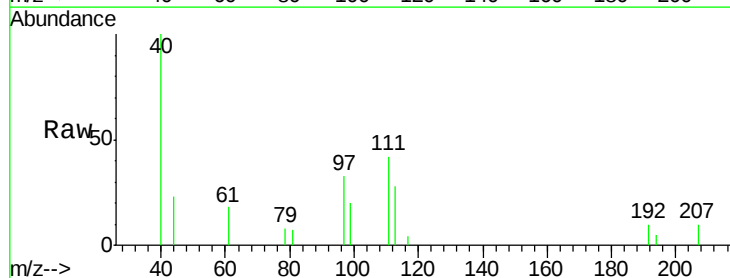


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

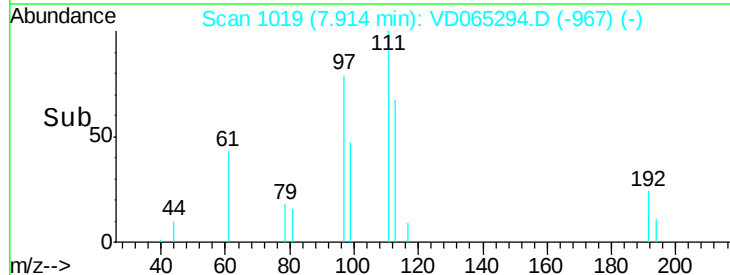
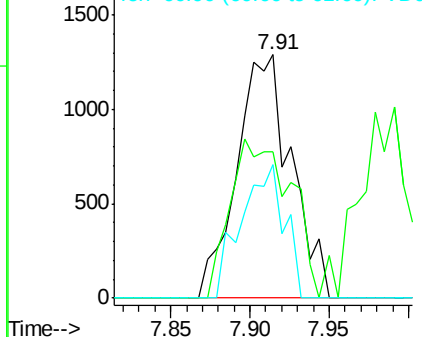


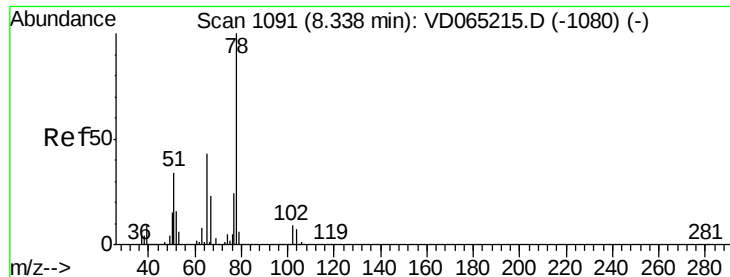
#32
1,1,1-Trichloroethane
Concen: 51.852 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. 0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 97 Resp: 3078
Ion Ratio Lower Upper
97 100
99 72.4 51.4 77.2
61 43.4 34.8 52.2



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 98.90 (98.60 to 99.60): VDC
Ion 60.90 (60.60 to 61.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 152.061 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

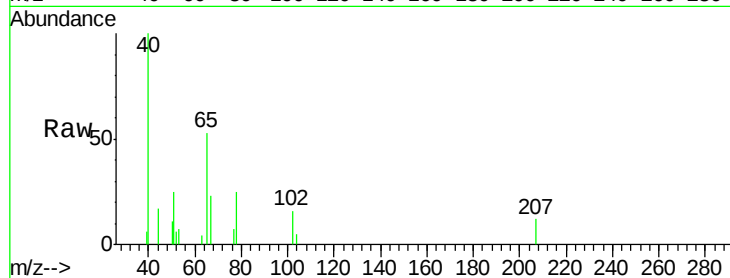
LIED-TS001-01MSD

Tot Ion: 65 Resp: 5004

Ion Ratio Lower Upper

65 100

67 57.2 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

2500

2000

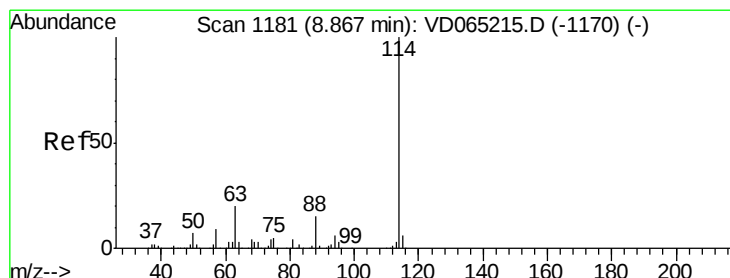
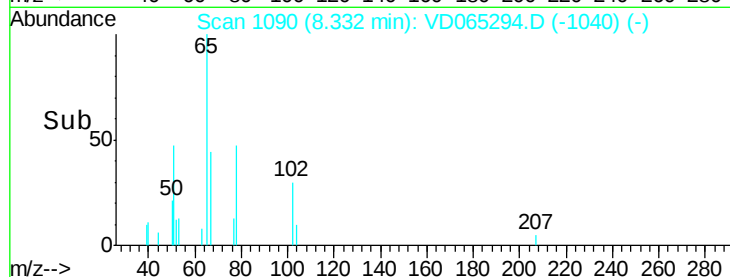
1500

1000

500

0

Time--> 8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

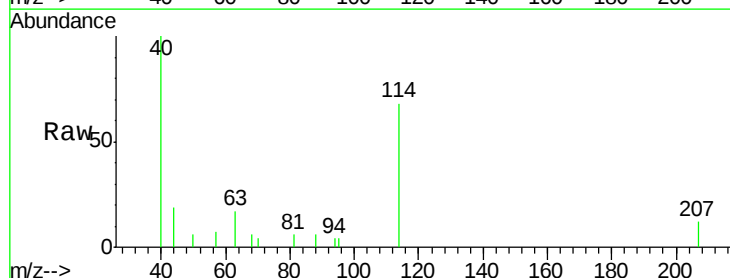
Tgt Ion:114 Resp: 6079

Ion Ratio Lower Upper

114 100

63 24.8 0.0 39.4

88 9.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

4000

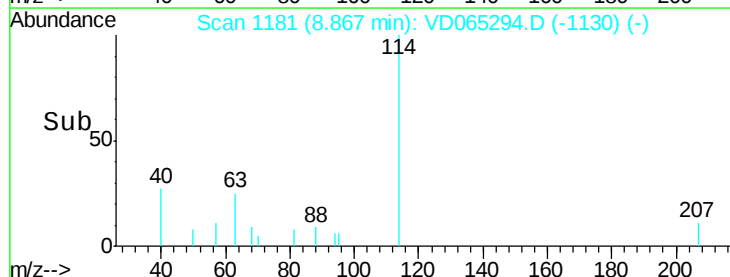
3000

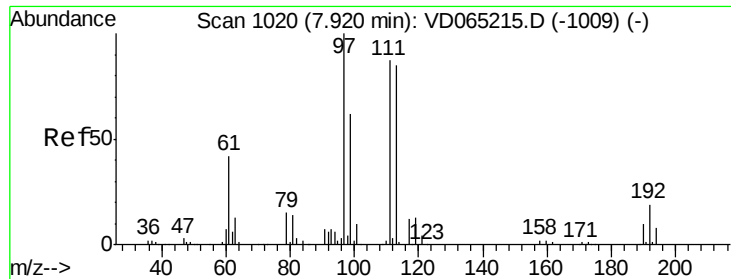
2000

1000

0

Time--> 8.80 8.85 8.90 8.95

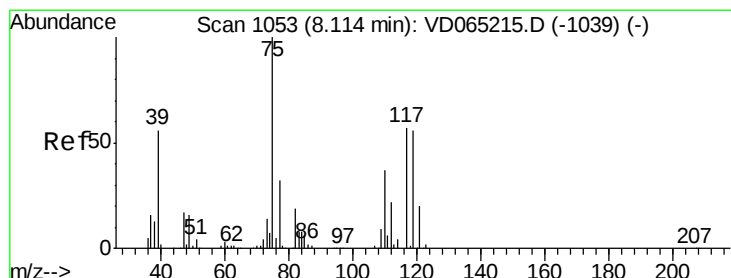
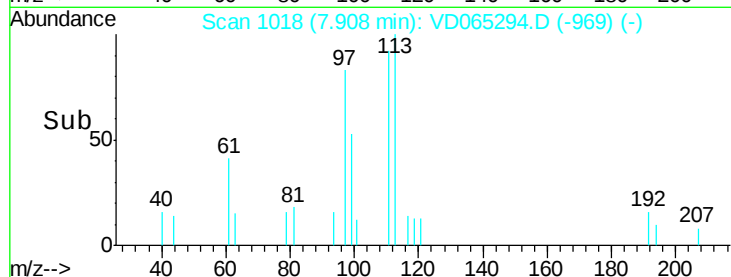
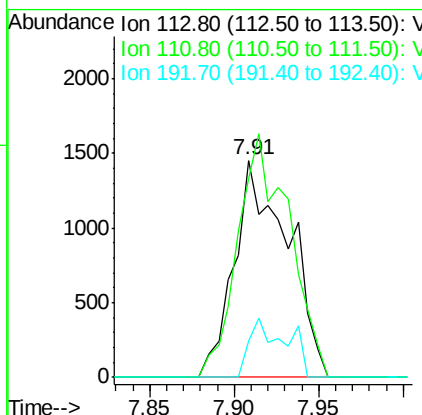
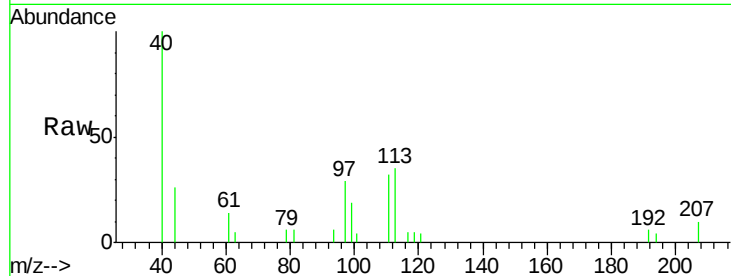




#35
Dibromofluoromethane
Concen: 87.034 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. -0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

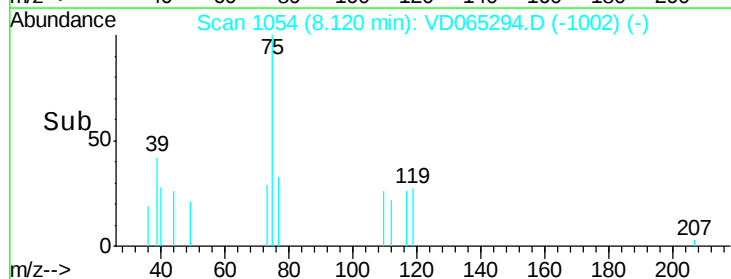
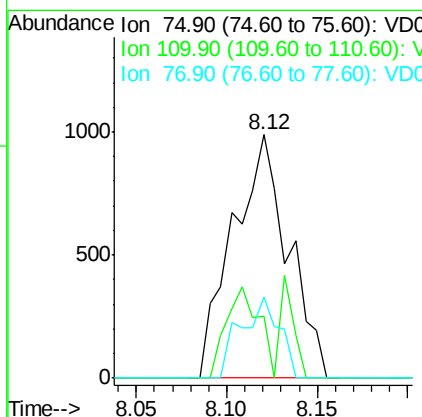
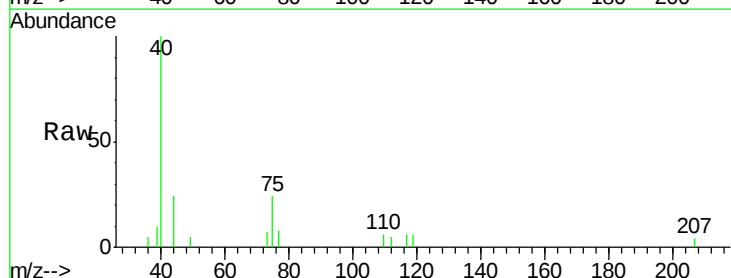
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

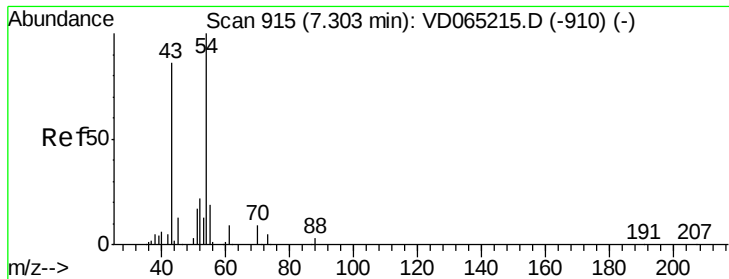
Tot Ion:113 Resp: 3226
Ion Ratio Lower Upper
113 100
111 107.0 82.9 124.3
192 18.4 17.3 25.9



#36
1,1-Dichloropropene
Concen: 35.453 ug/l
RT: 8.12 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 75 Resp: 2097
Ion Ratio Lower Upper
75 100
110 10.0 17.9 53.7#
77 23.1 25.1 37.7#





#37

Ethyl Acetate

Concen: 268.694 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.09 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MSD

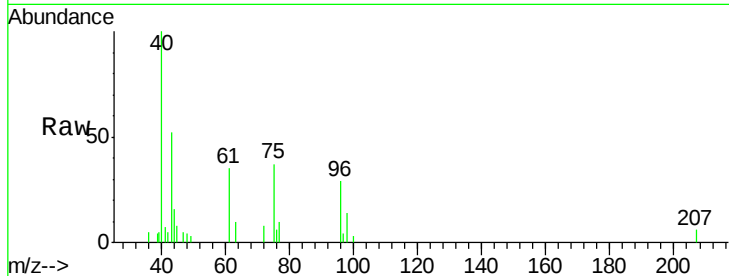
Tot Ion: 43 Resp: 6644

Ion Ratio Lower Upper

43 100

61 55.8 11.2 16.8#

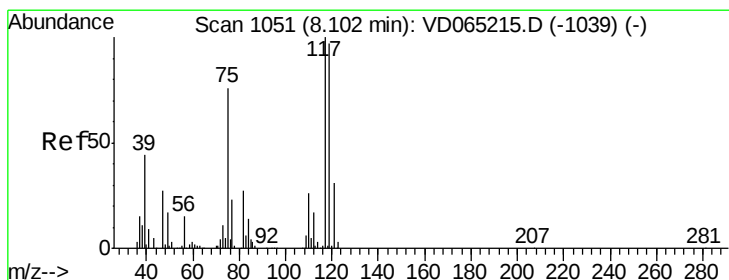
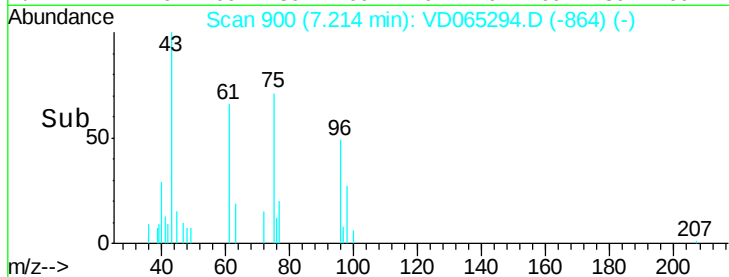
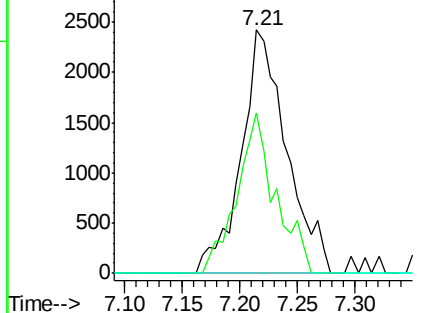
70 0.0 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 29.180 ug/l

RT: 8.10 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

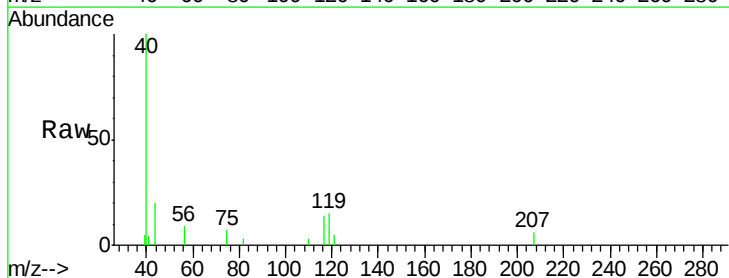
Tgt Ion: 117 Resp: 1757

Ion Ratio Lower Upper

117 100

119 105.8 77.6 116.4

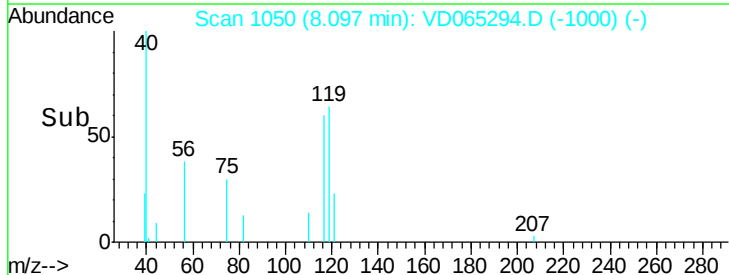
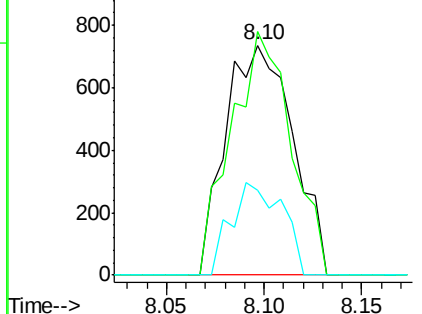
121 37.2 24.8 37.2#

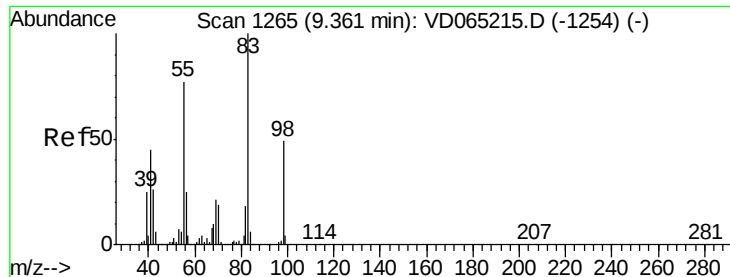


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

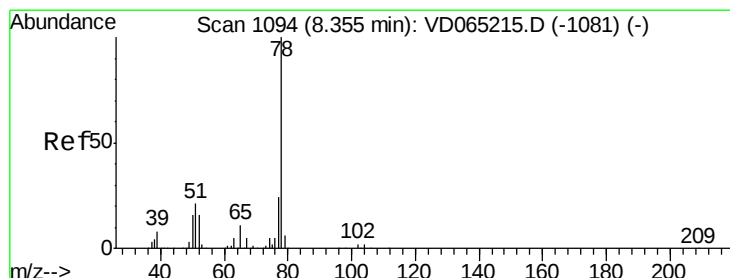
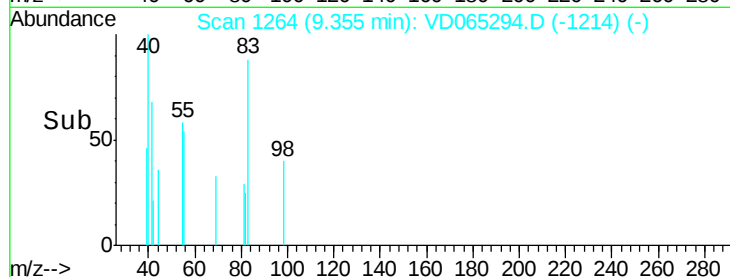
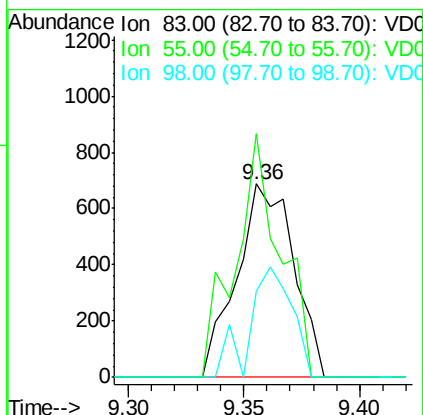
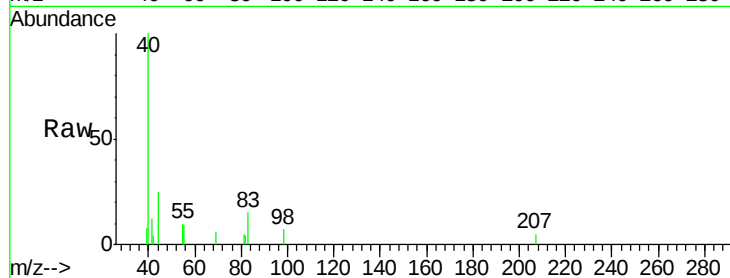




#39
Methvlcvclohexane
Concen: 17.012 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

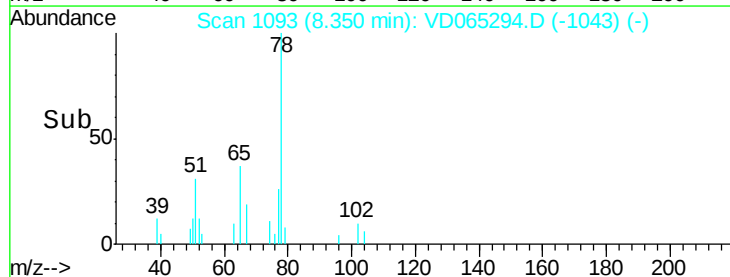
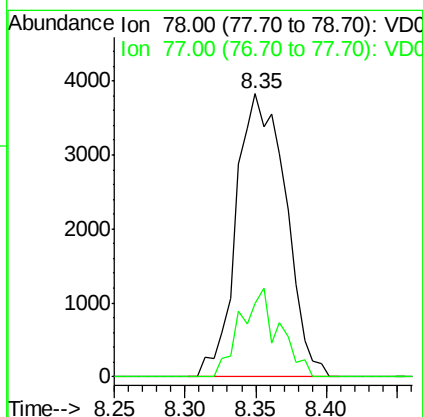
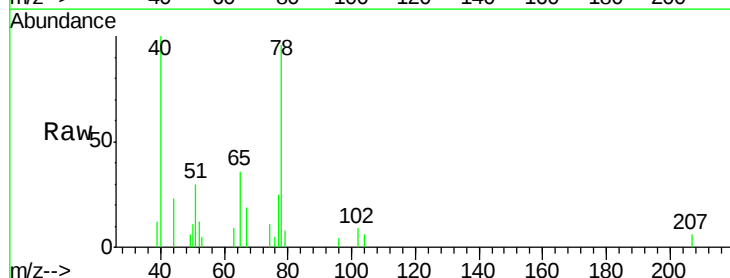
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

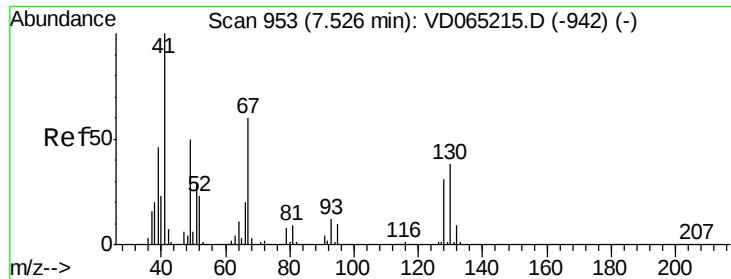
Tot Ion: 83 Resp: 1183
Ion Ratio Lower Upper
83 100
55 126.1 61.8 92.6#
98 44.8 39.4 59.0



#40
Benzene
Concen: 56.165 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 78 Resp: 9377
Ion Ratio Lower Upper
78 100
77 25.7 19.0 28.6

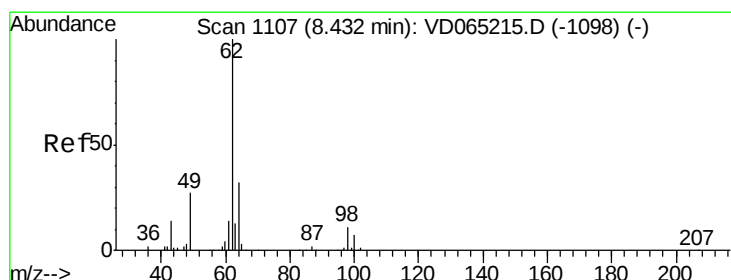
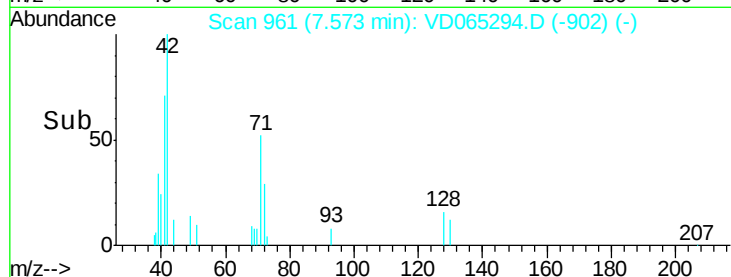
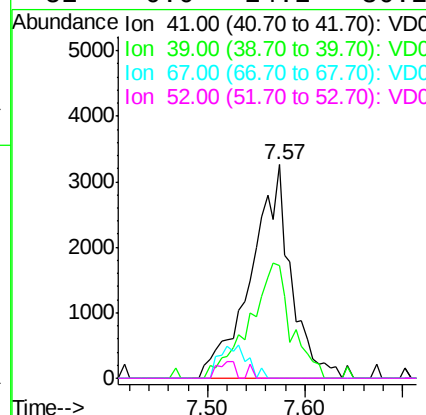
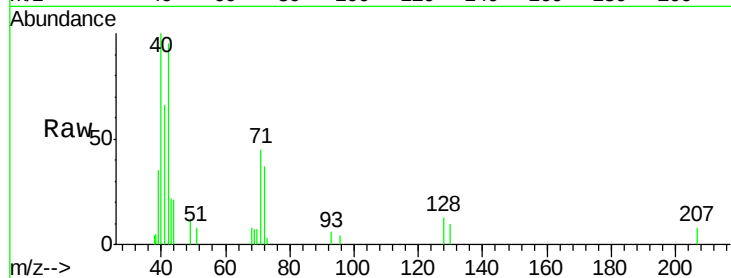




#41
Methacrylonitrile
Concen: 651.246 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.05 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

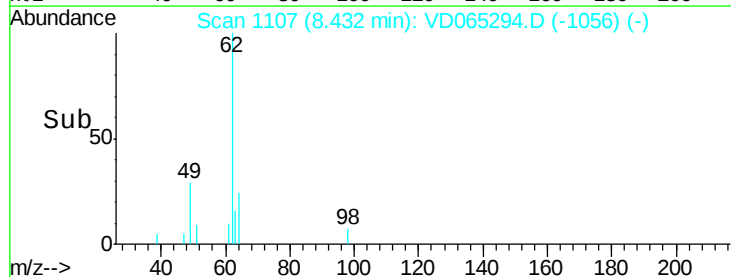
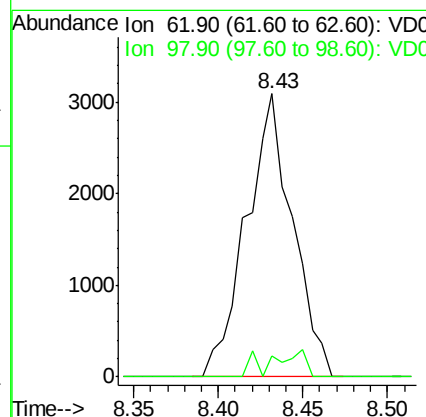
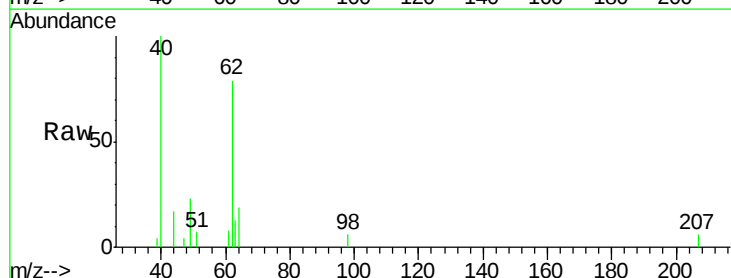
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

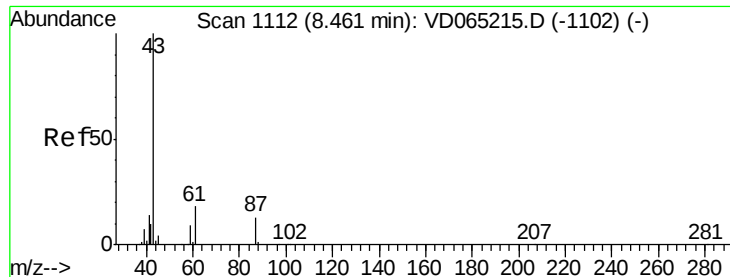
Tot Ion: 41 Resp: 9298
Ion Ratio Lower Upper
41 100
39 56.1 48.1 72.1
67 0.0 58.9 88.3#
52 0.0 24.2 36.2#



#42
1,2-Dichloroethane
Concen: 128.219 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 62 Resp: 5885
Ion Ratio Lower Upper
62 100
98 1.7 0.0 20.6





#43

Isopropyl Acetate

Concen: 11.520 ug/l

RT: 8.47 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MSD

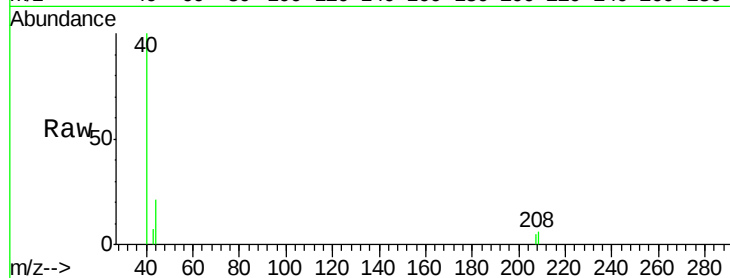
Tot Ion: 43 Resp: 518

Ion Ratio Lower Upper

43 100

61 0.0 24.6 36.8#

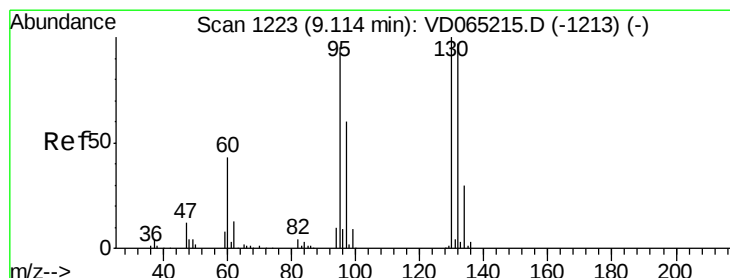
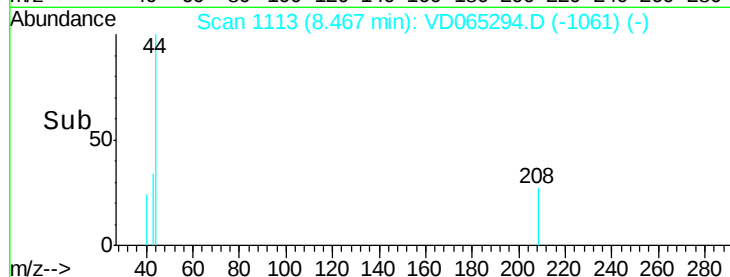
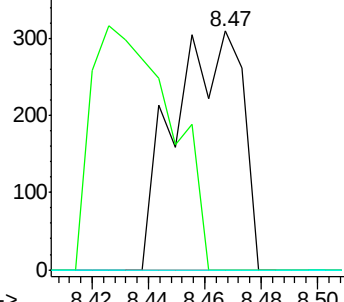
87 0.0 10.6 16.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 53.458 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD065294.D

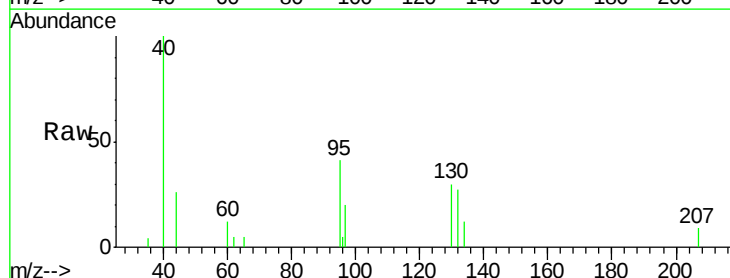
Acq: 24 Feb 2020 14:59

Tgt Ion:130 Resp: 2474

Ion Ratio Lower Upper

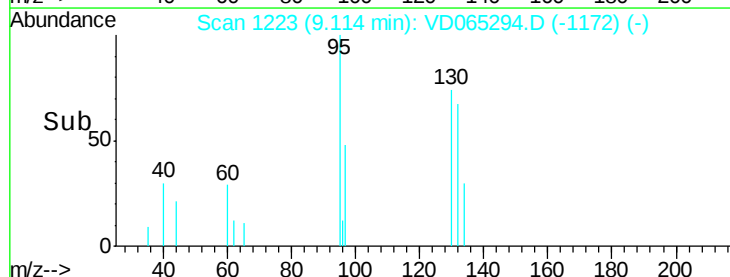
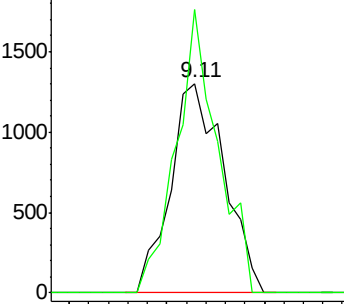
130 100

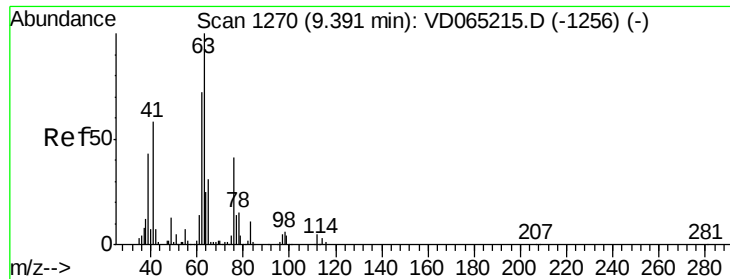
95 135.4 0.0 190.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC

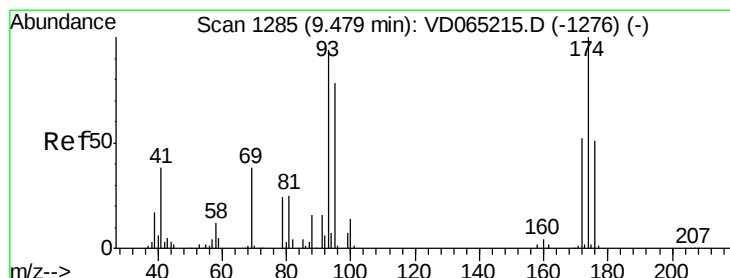
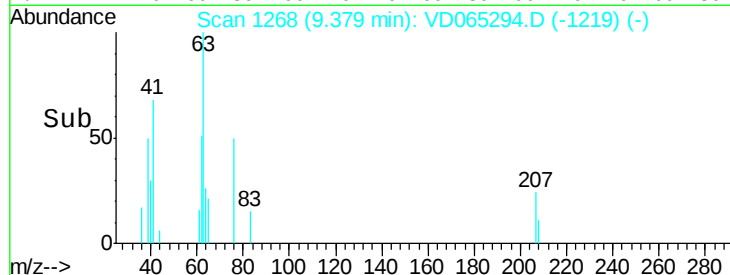
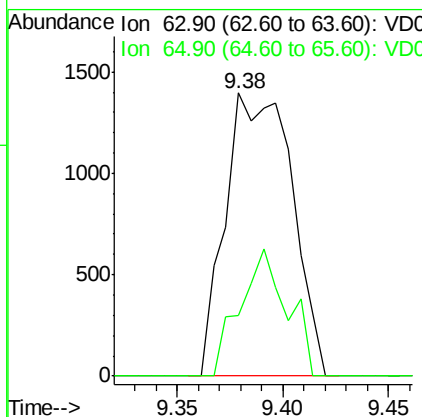
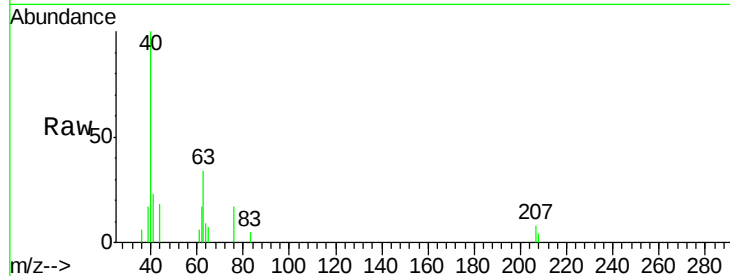




#45
 1,2-Dichloropropane
 Concen: 73.444 ug/l
 RT: 9.38 min Scan# 1268
 Delta R.T. -0.01 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

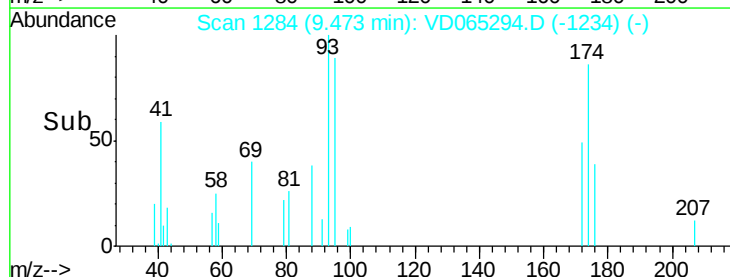
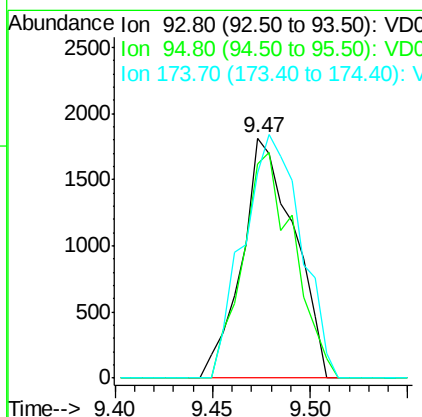
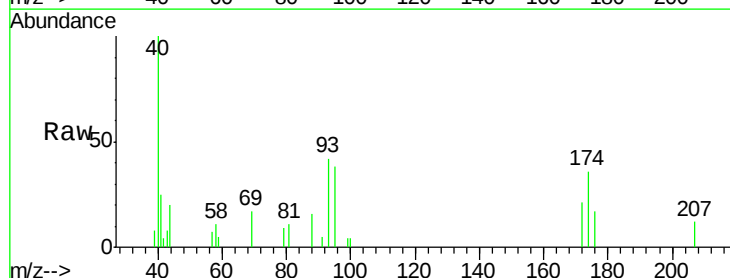
Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MSD

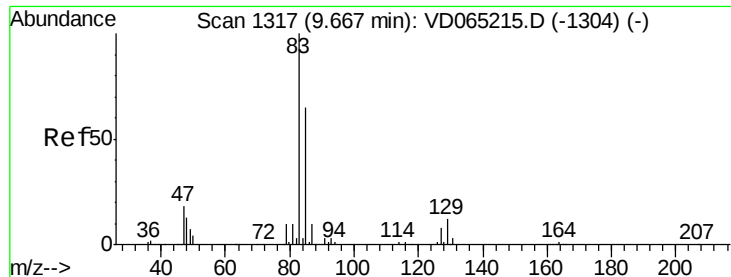
Tot Ion: 63 Resp: 3049
 Ion Ratio Lower Upper
 63 100
 65 21.4 24.9 37.3#



#46
 Dibromomethane
 Concen: 157.725 ug/l
 RT: 9.47 min Scan# 1284
 Delta R.T. -0.01 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Tgt Ion: 93 Resp: 3369
 Ion Ratio Lower Upper
 93 100
 95 91.9 65.8 98.6
 174 111.9 86.8 130.2

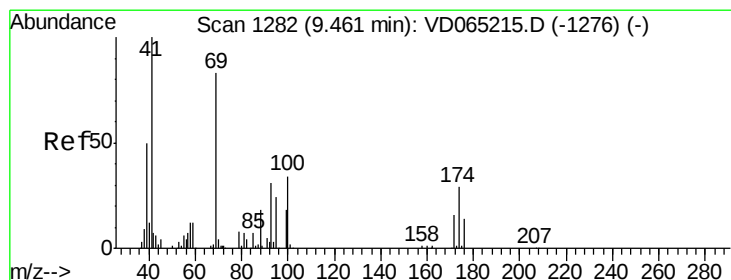
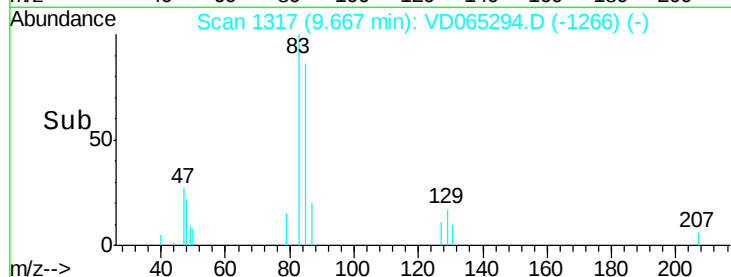
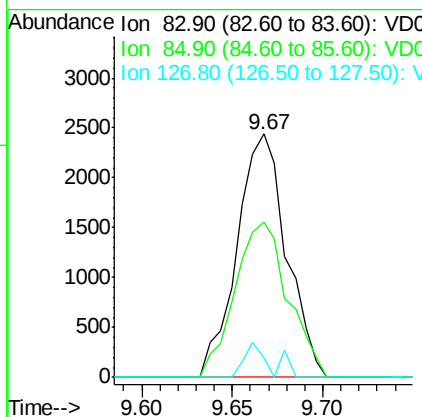
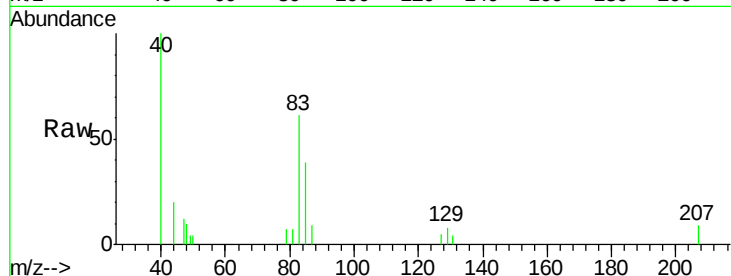




#47
Bromodichloromethane
Concen: 82.251 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

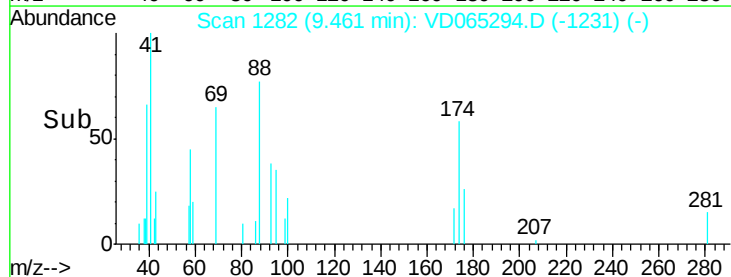
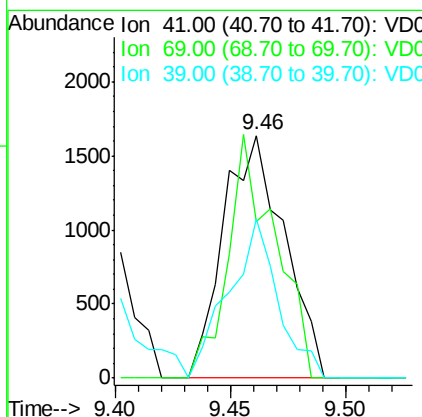
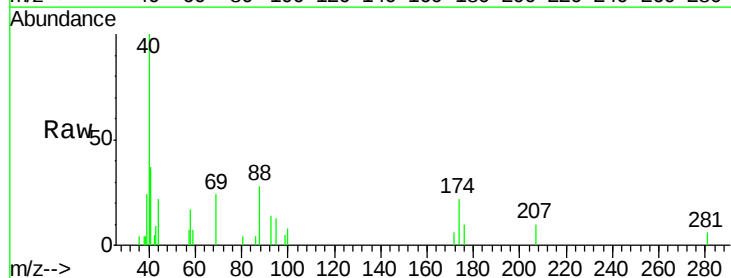
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

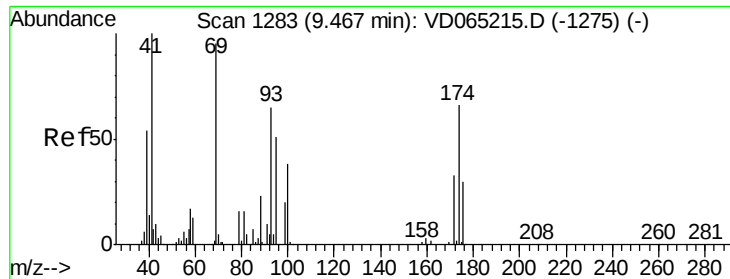
Tot Ion: 83 Resp: 4630
Ion Ratio Lower Upper
83 100
85 63.9 52.0 78.0
127 7.9 6.7 10.1



#48
Methyl methacrylate
Concen: 144.099 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 41 Resp: 2995
Ion Ratio Lower Upper
41 100
69 77.6 68.2 102.2
39 53.6 42.0 63.0

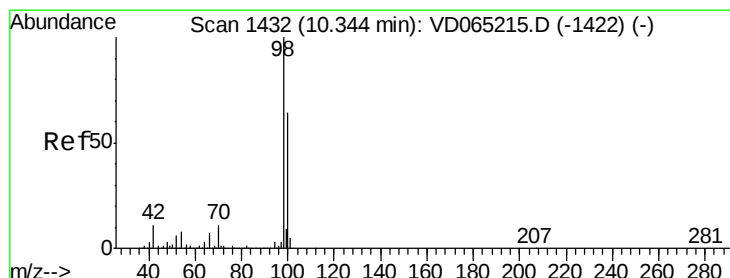
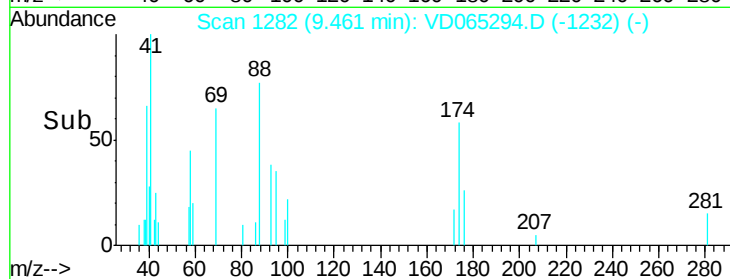
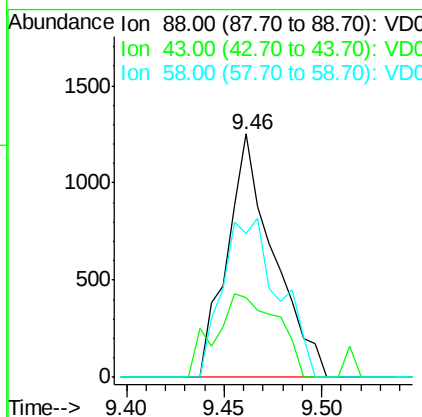
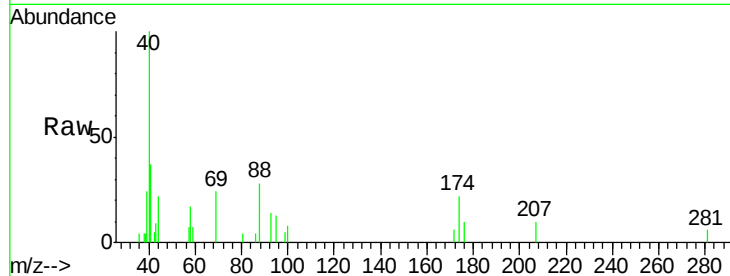




#49
1,4-Dioxane
Concen: 8266.789 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

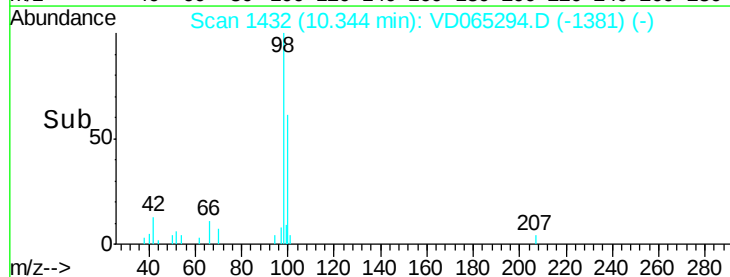
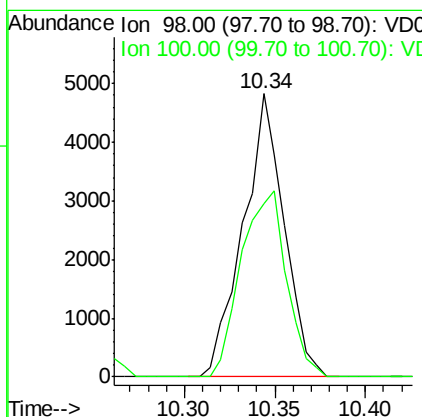
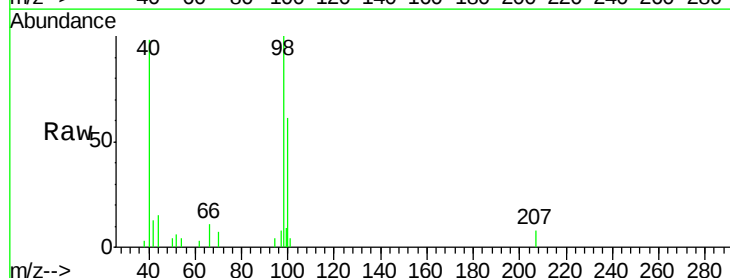
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

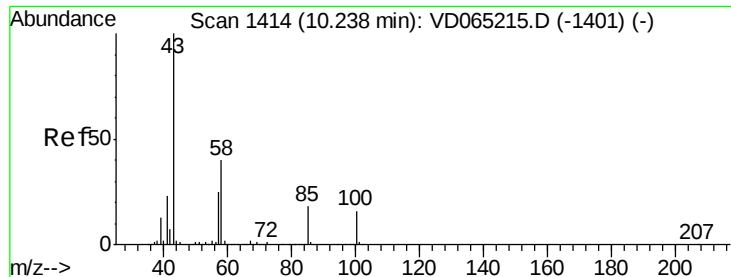
Tot Ion: 88 Resp: 2071
Ion Ratio Lower Upper
88 100
43 45.8 28.5 42.7#
58 78.7 58.6 87.8



#50
Toluene-d8
Concen: 53.479 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 98 Resp: 7578
Ion Ratio Lower Upper
98 100
100 72.8 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 994.683 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

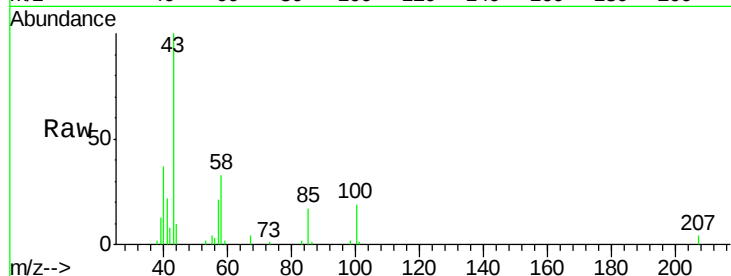
LIED-TS001-01MSD

Tot Ion: 43 Resp: 22717

Ion Ratio Lower Upper

43 100

58 36.4 31.1 46.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

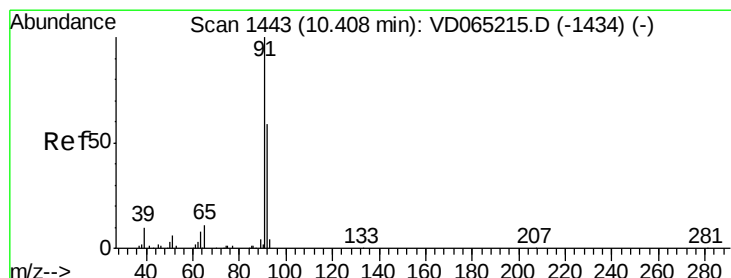
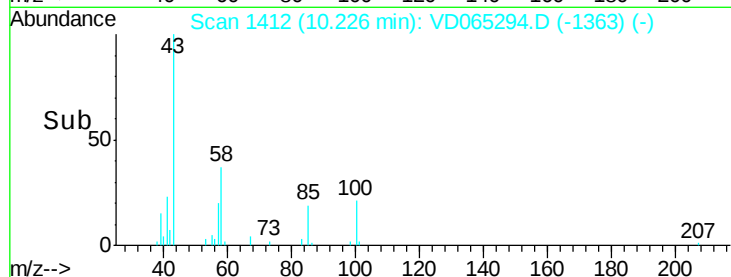
10.23

10000

5000

0

Time--> 10.15 10.20 10.25 10.30



#52

Toluene

Concen: 41.803 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD065294.D

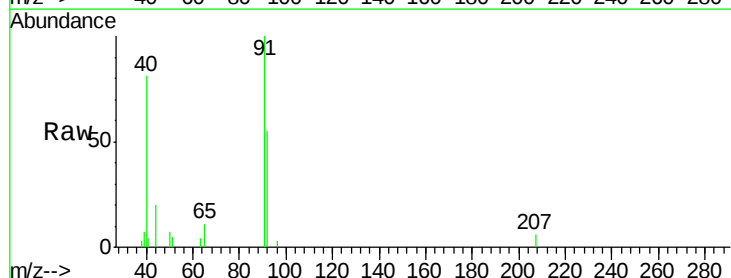
Acq: 24 Feb 2020 14:59

Tgt Ion: 92 Resp: 4320

Ion Ratio Lower Upper

92 100

91 179.0 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.41

5000

4000

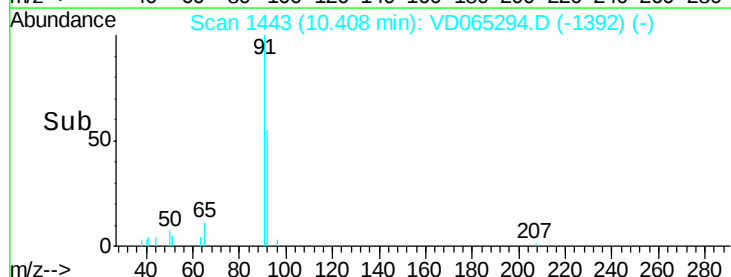
3000

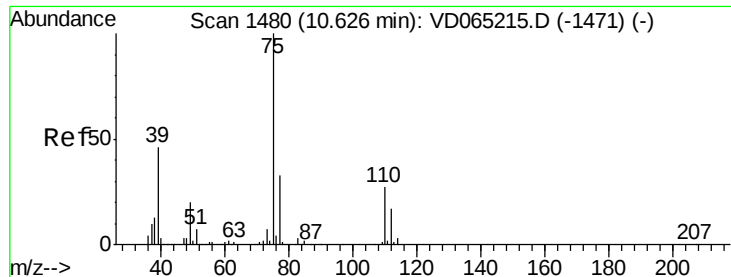
2000

1000

0

Time--> 10.35 10.40 10.45

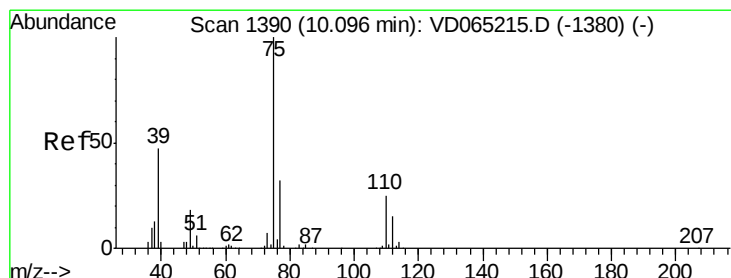
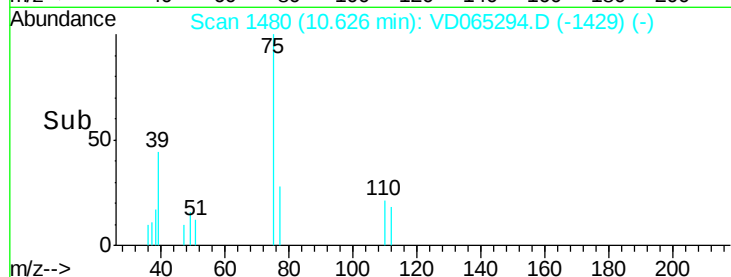
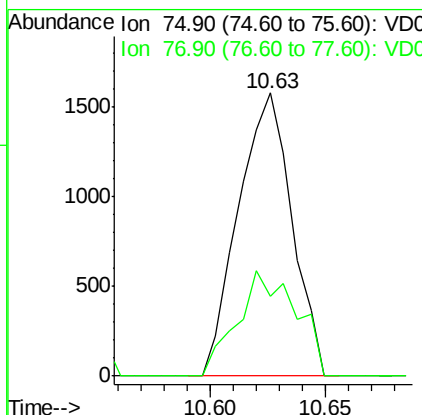
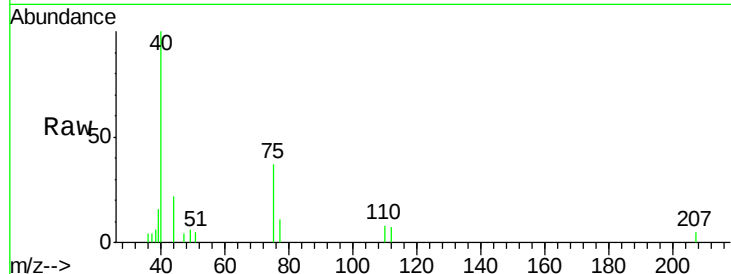




#53
t-1,3-Dichloropropene
Concen: 48.642 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

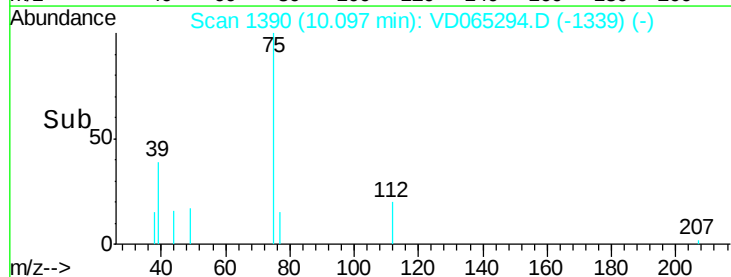
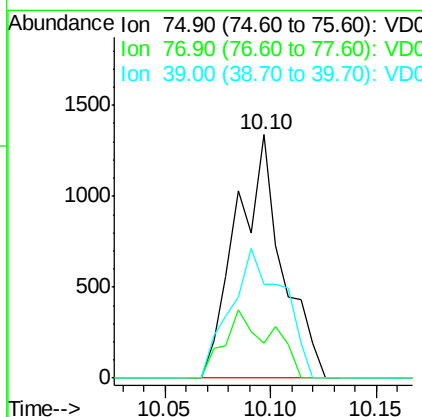
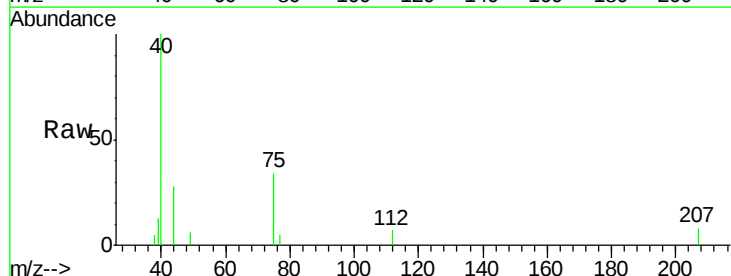
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

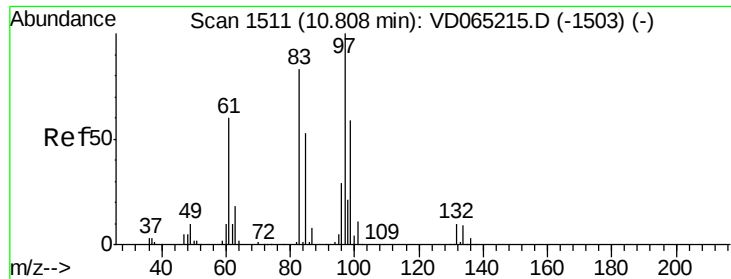
Tot Ion: 75 Resp: 2538
Ion Ratio Lower Upper
75 100
77 28.4 26.6 40.0



#54
cis-1,3-Dichloropropene
Concen: 32.172 ug/l
RT: 10.10 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 75 Resp: 2027
Ion Ratio Lower Upper
75 100
77 14.6 25.8 38.8#
39 38.7 37.3 55.9

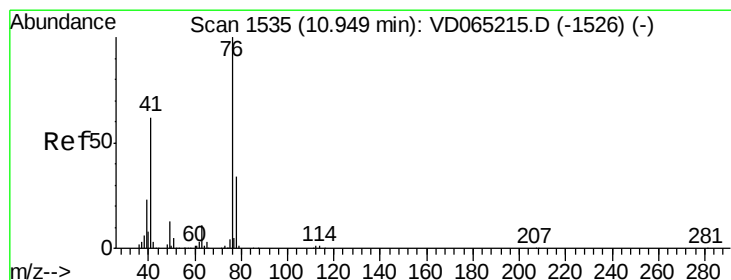
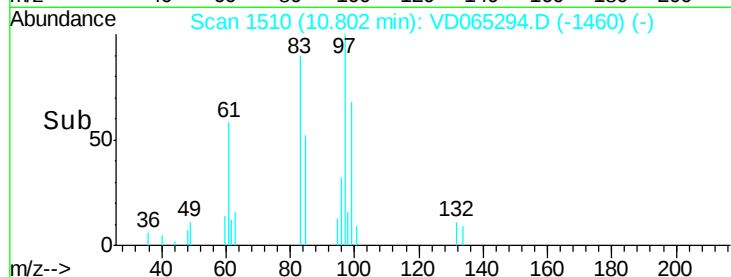
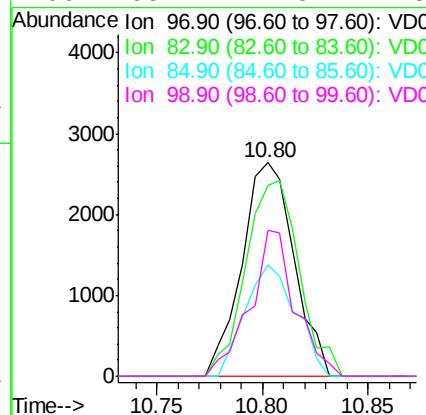
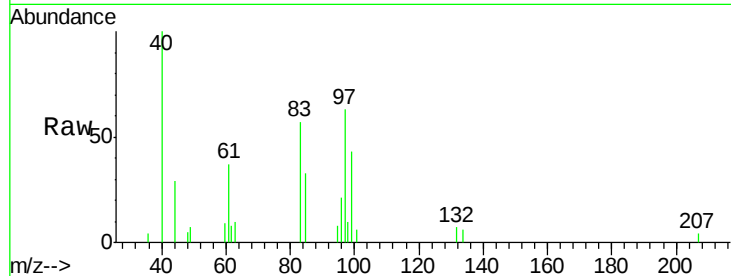




#55
 1,1,2-Trichloroethane
 Concen: 150.877 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.01 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

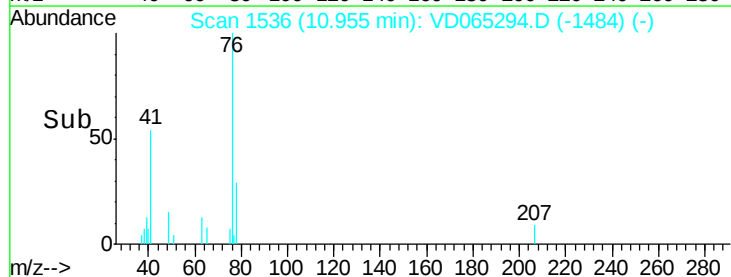
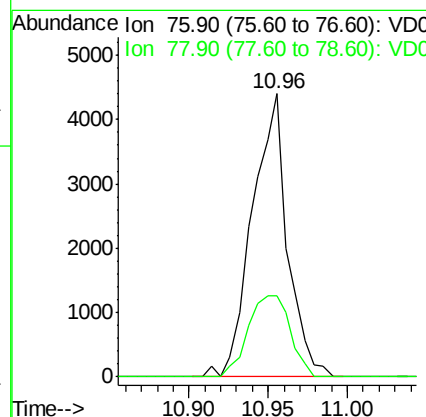
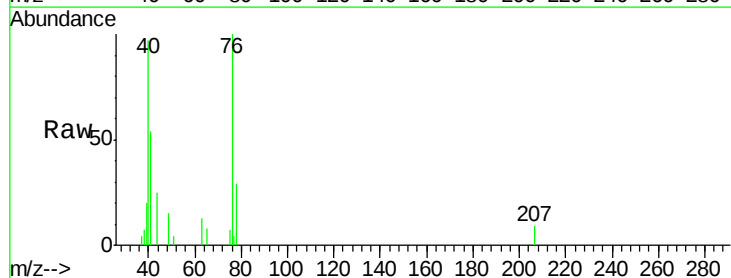
Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MSD

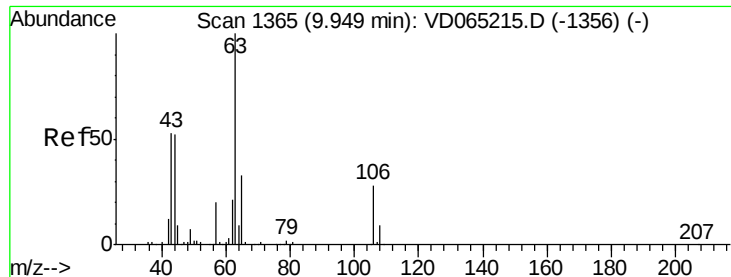
Tot Ion:	97	Resp:	4536
Ion	Ratio	Lower	Upper
97	100		
83	89.6	66.7	100.1
85	51.9	42.4	63.6
99	68.4	47.5	71.3



#57
 1,3-Dichloropropane
 Concen: 132.640 ug/l
 RT: 10.96 min Scan# 1536
 Delta R.T. 0.01 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Tgt Ion:	76	Resp:	6787
Ion	Ratio	Lower	Upper
76	100		
78	34.3	26.3	39.5

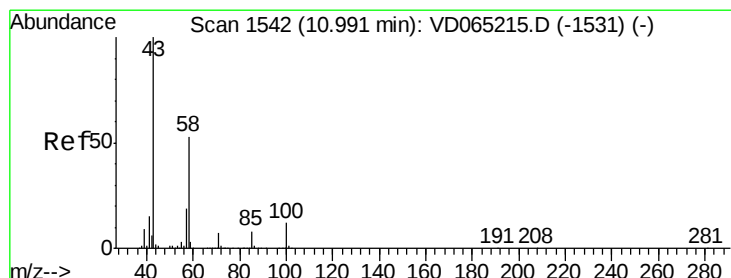
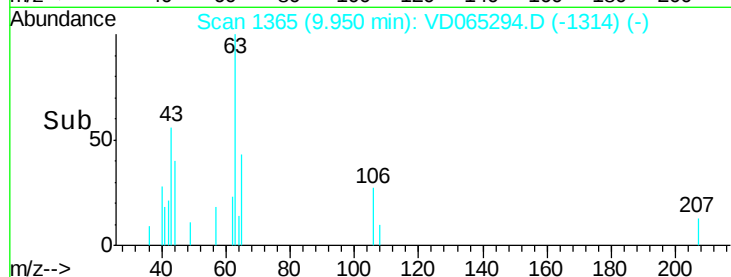
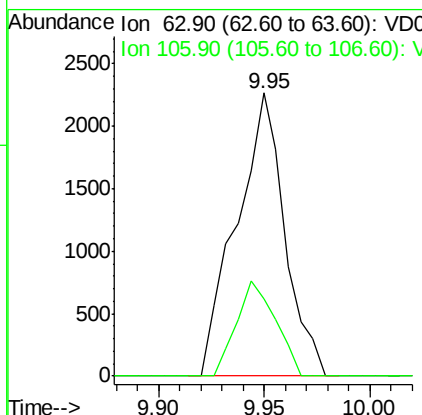
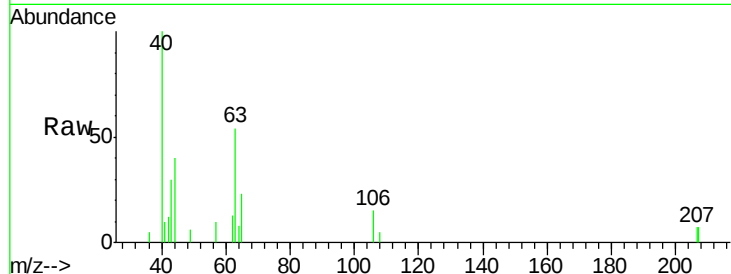




#58
2-Chloroethyl Vinyl ether
Concen: 328.605 ug/l
RT: 9.95 min Scan# 1365
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

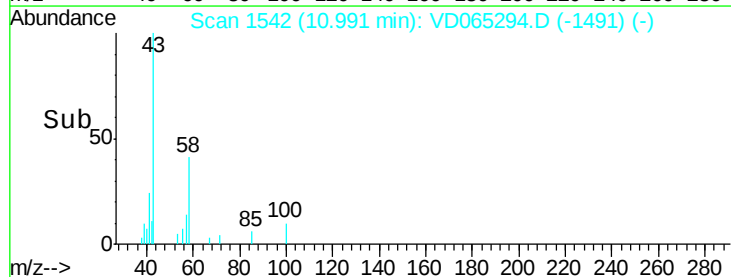
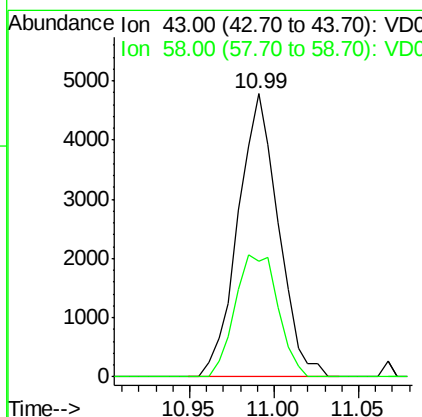
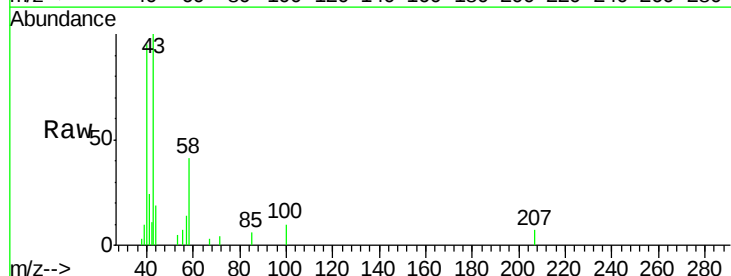
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

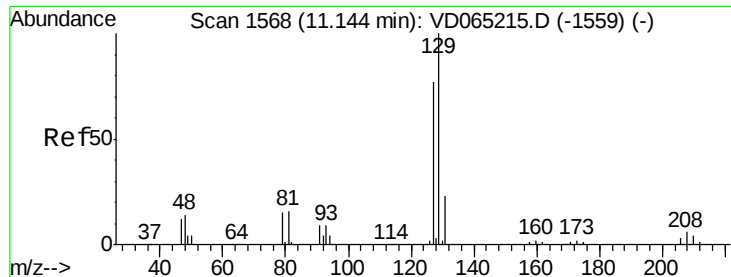
Tot Ion: 63 Resp: 3595
Ion Ratio Lower Upper
63 100
106 27.0 22.8 34.2



#59
2-Hexanone
Concen: 488.113 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 43 Resp: 7980
Ion Ratio Lower Upper
43 100
58 45.6 26.3 78.8





#60

Dibromochloromethane

Concen: 111.721 ug/l

RT: 11.14 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

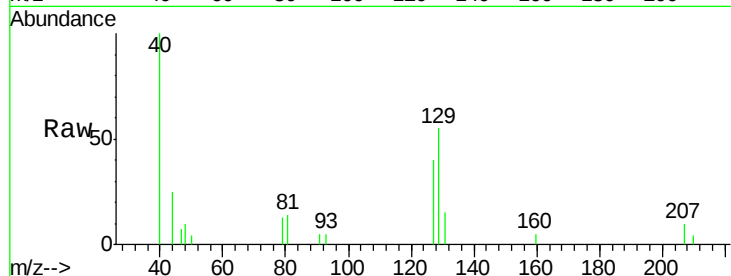
LIED-TS001-01MSD

Tot Ion:129 Resp: 4299

Ion Ratio Lower Upper

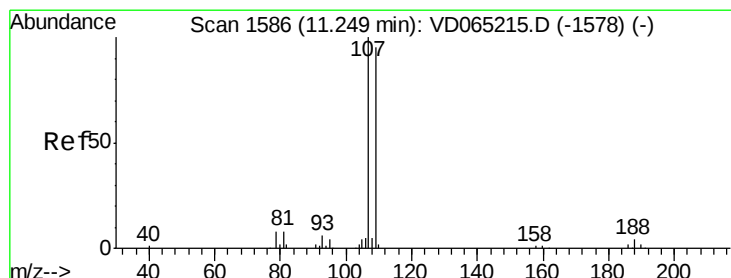
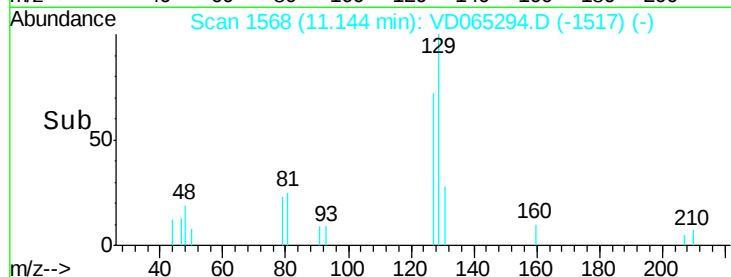
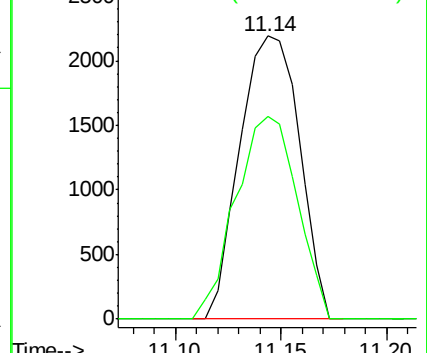
129 100

127 74.1 38.7 116.1



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 150.323 ug/l

RT: 11.26 min Scan# 1587

Delta R.T. 0.01 min

Lab File: VD065294.D

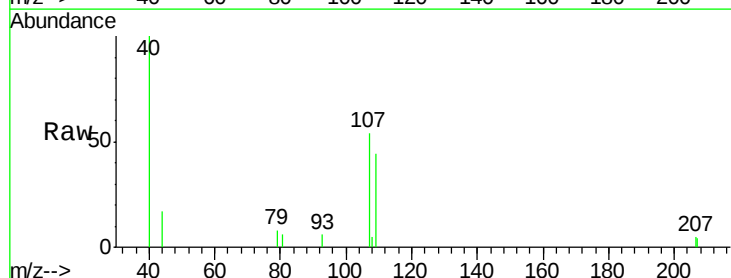
Acq: 24 Feb 2020 14:59

Tgt Ion:107 Resp: 4279

Ion Ratio Lower Upper

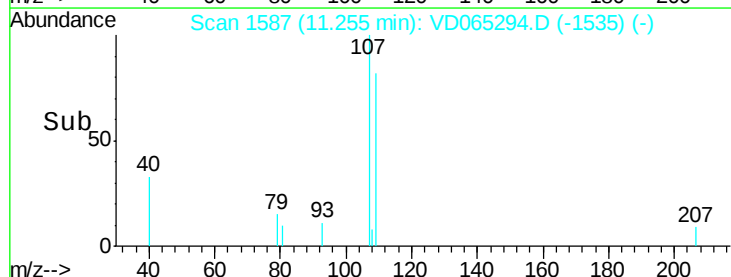
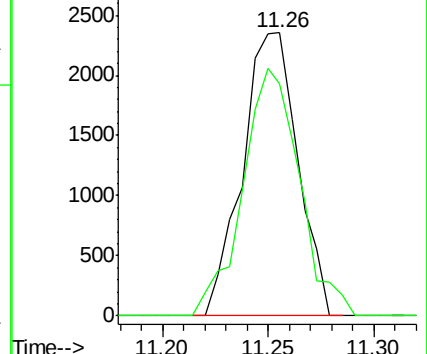
107 100

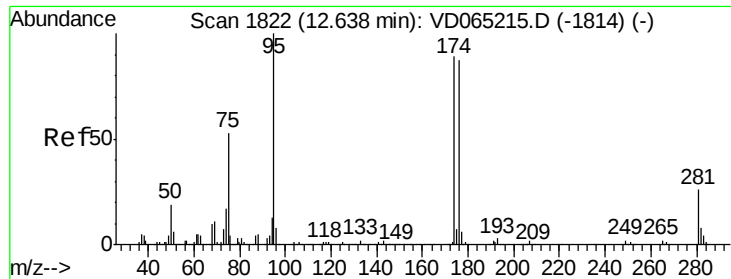
109 89.8 76.2 114.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

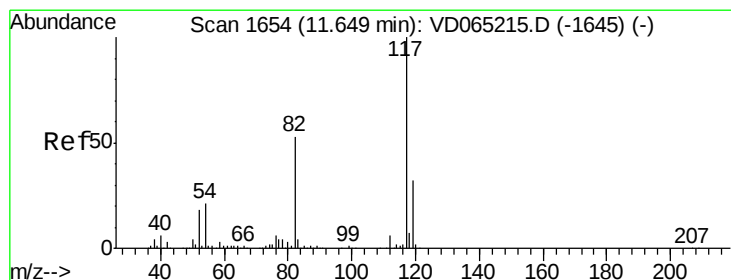
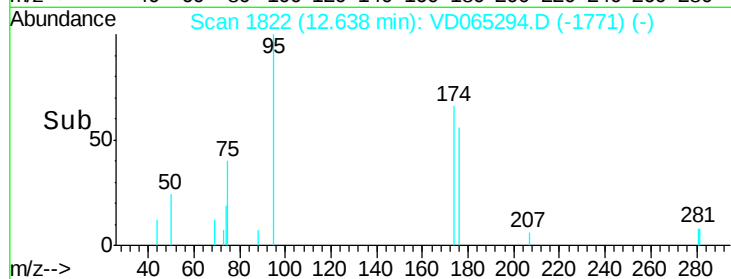
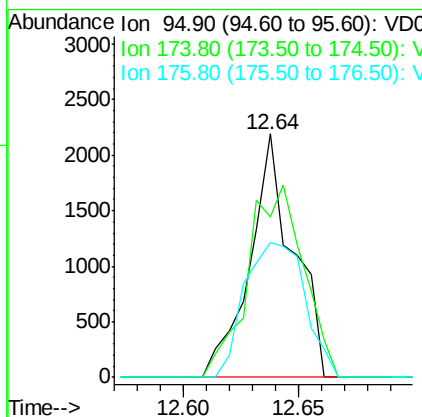
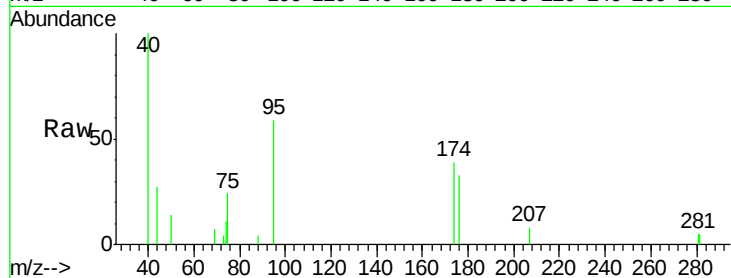




#62
4-Bromofluorobenzene
Concen: 63.556 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

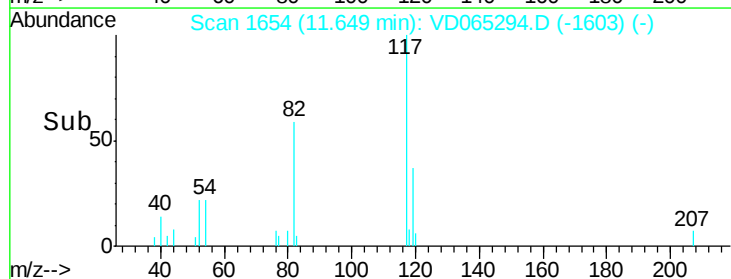
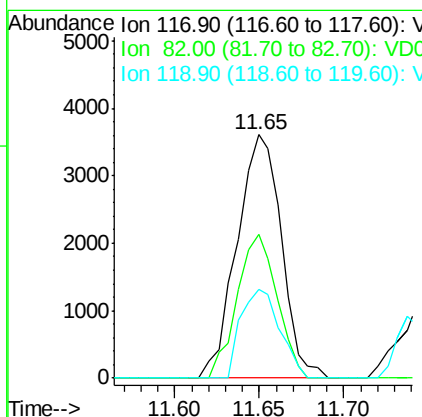
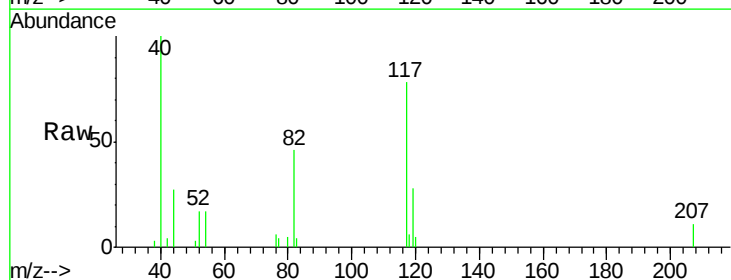
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

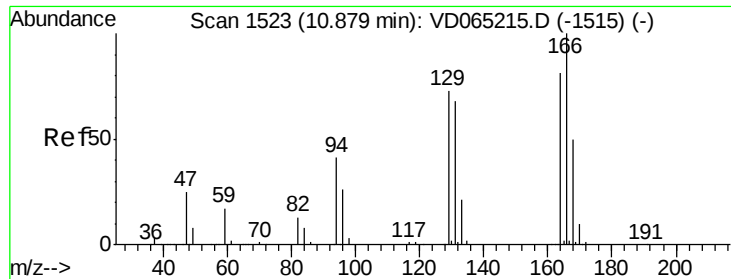
Tot Ion: 95 Resp: 2853
Ion Ratio Lower Upper
95 100
174 101.4 0.0 178.0
176 77.3 0.0 174.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 117 Resp: 6601
Ion Ratio Lower Upper
117 100
82 59.2 42.7 64.1
119 36.5 25.5 38.3

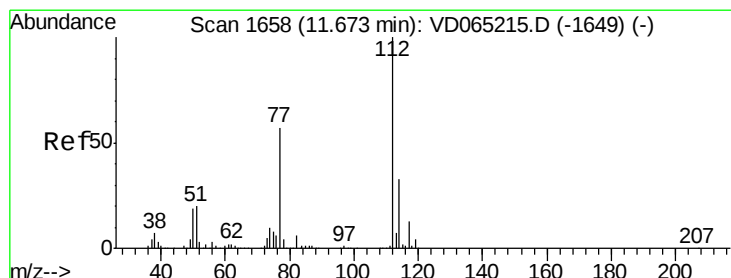
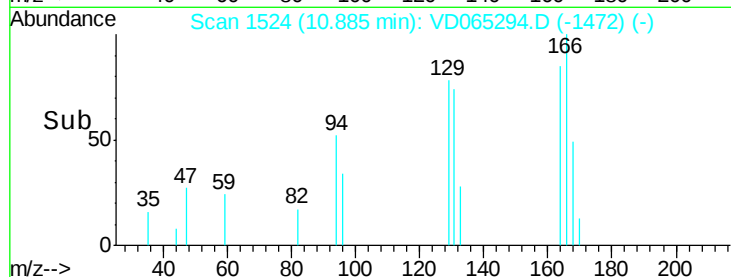
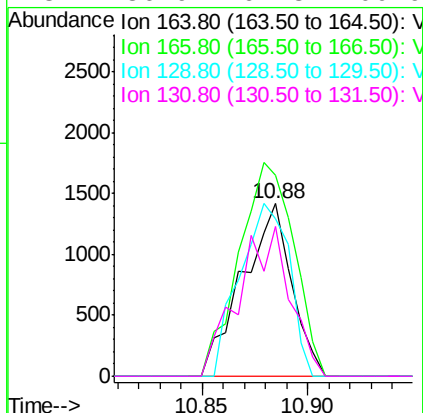
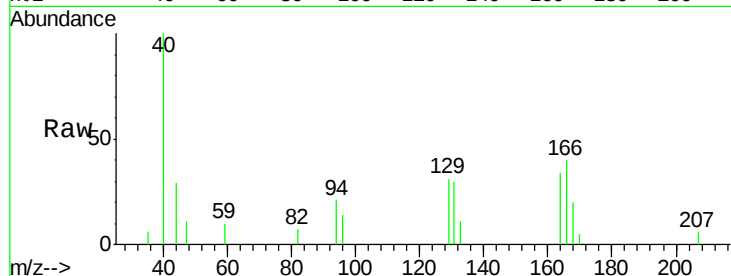




#64
Tetrachloroethene
Concen: 49.000 ug/l
RT: 10.88 min Scan# 1524
Delta R.T. 0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

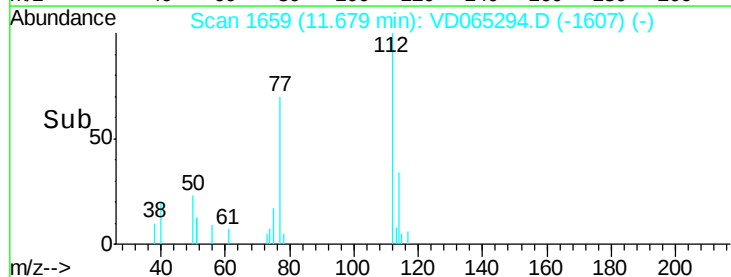
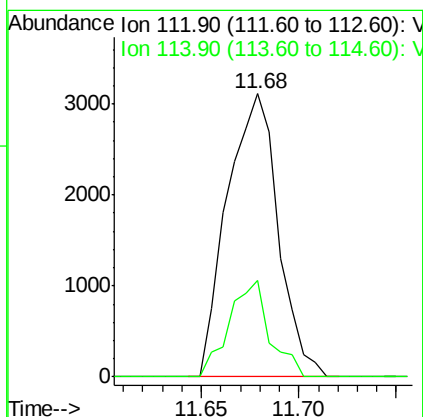
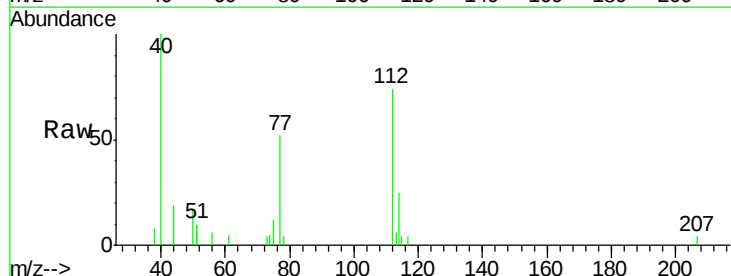
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

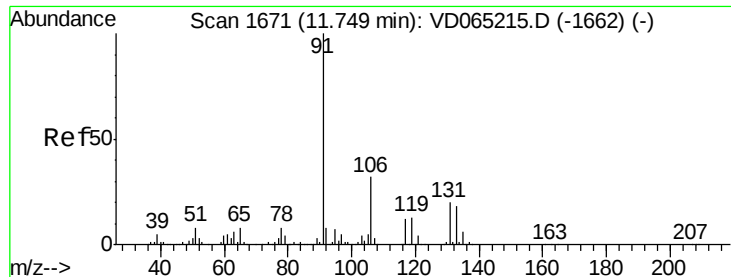
Tot Ion:164 Resp: 2294
Ion Ratio Lower Upper
164 100
166 117.0 98.4 147.6
129 91.1 71.6 107.4
131 86.9 67.3 100.9



#65
Chlorobenzene
Concen: 42.381 ug/l
RT: 11.68 min Scan# 1659
Delta R.T. 0.01 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion:112 Resp: 5614
Ion Ratio Lower Upper
112 100
114 34.1 26.4 39.6





#66

1,1,1,2-Tetrachloroethane

Concen: 67.708 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MSD

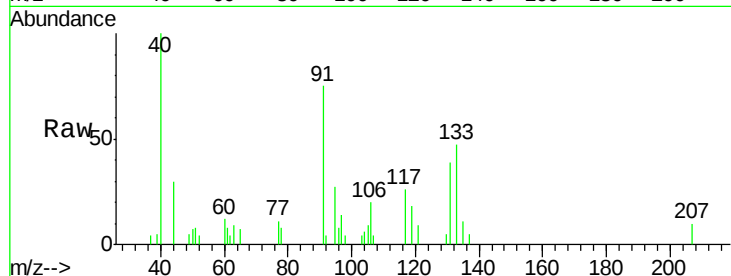
Tot Ion:131 Resp: 3347

Ion Ratio Lower Upper

131 100

133 104.5 47.7 143.1

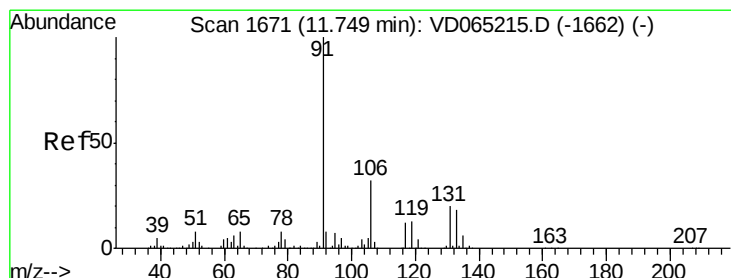
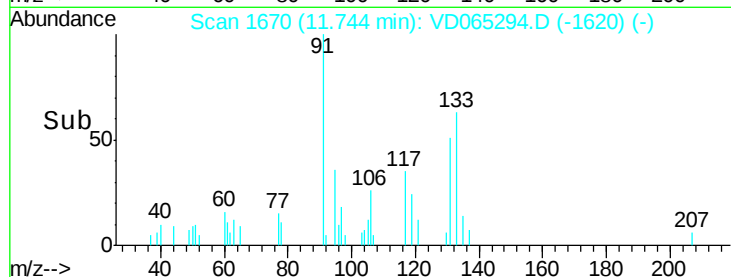
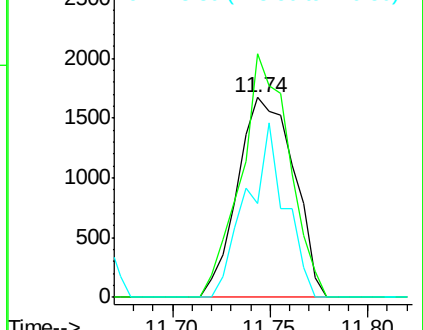
119 59.6 32.7 98.1



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 25.772 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VD065294.D

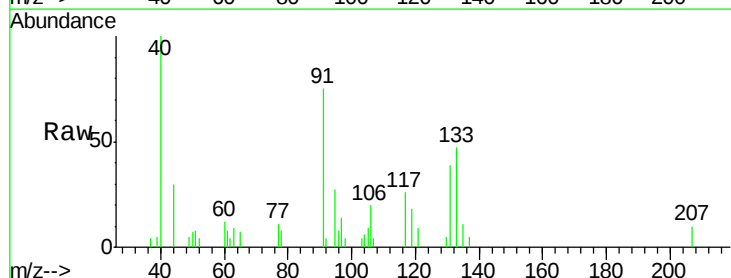
Acq: 24 Feb 2020 14:59

Tgt Ion: 91 Resp: 5979

Ion Ratio Lower Upper

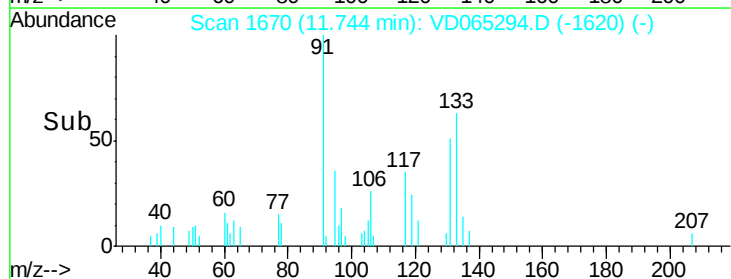
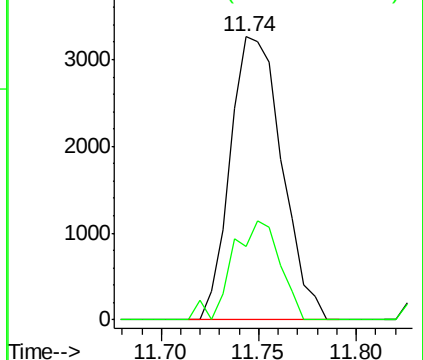
91 100

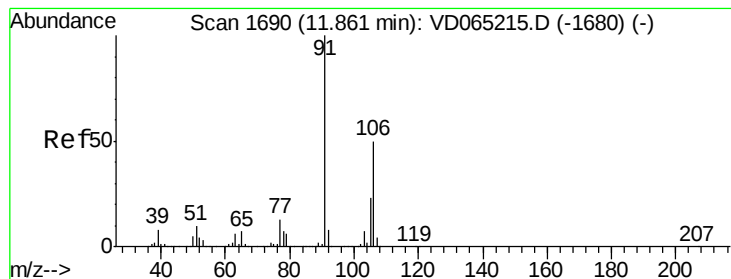
106 26.1 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 52.140 ug/l

RT: 11.86 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

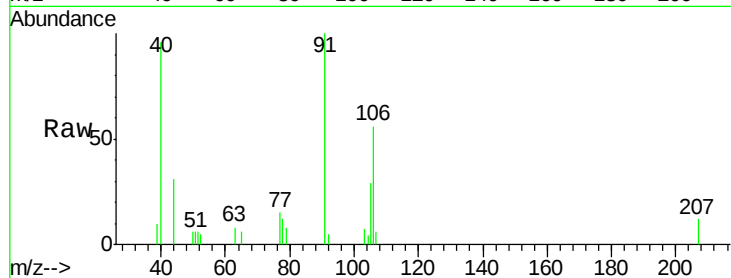
LIED-TS001-01MSD

Tot Ion:106 Resp: 4628

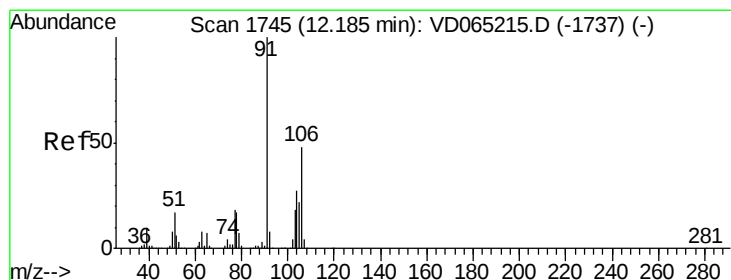
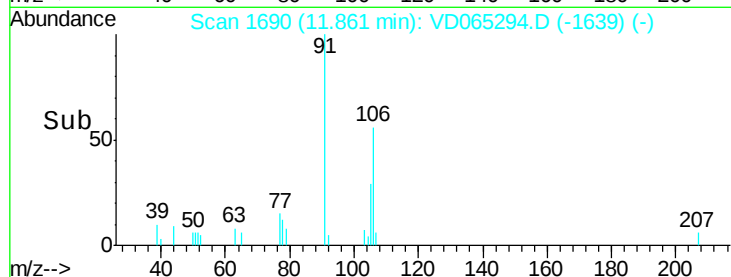
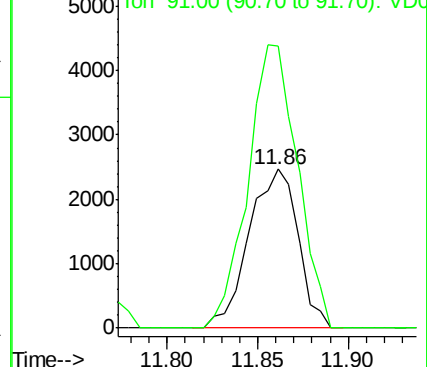
Ion Ratio Lower Upper

106 100

91 180.4 158.2 237.4



Abundance Ion 106.00 (105.70 to 106.70): V



#69

o-Xylene

Concen: 30.138 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VD065294.D

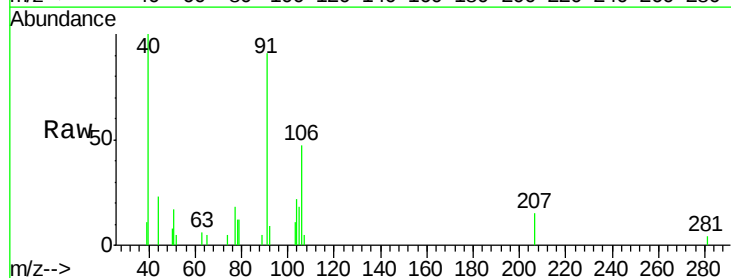
Acq: 24 Feb 2020 14:59

Tgt Ion:106 Resp: 2370

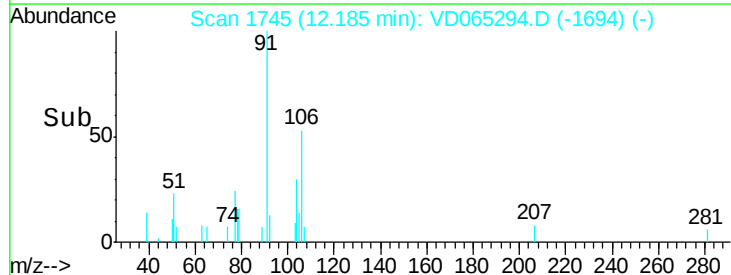
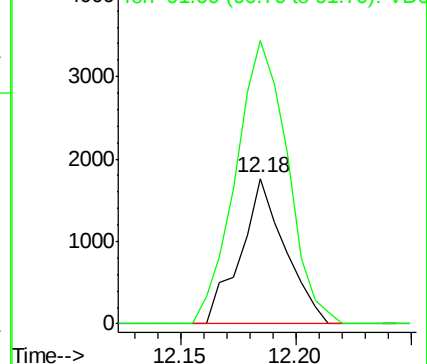
Ion Ratio Lower Upper

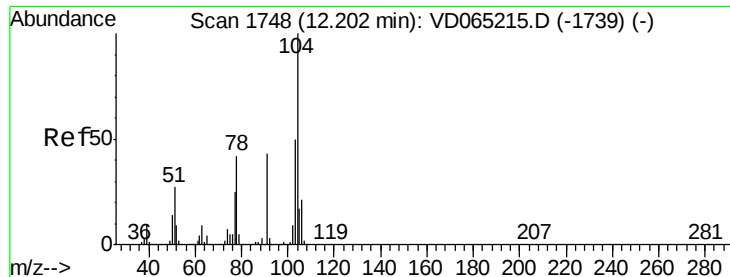
106 100

91 227.6 104.7 313.9



Abundance Ion 106.00 (105.70 to 106.70): V





#70

Stvrene

Concen: 15.349 ug/l

RT: 12.20 min Scan# 1748

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MSD

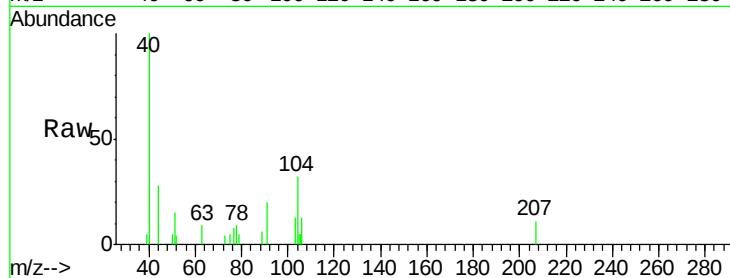
Tot Ion:104 Resp: 2143

Ion Ratio Lower Upper

104 100

78 54.1 37.8 56.6

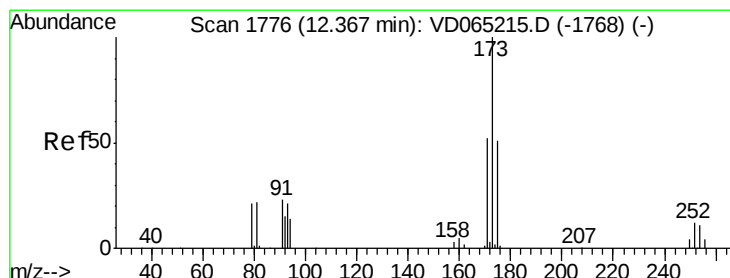
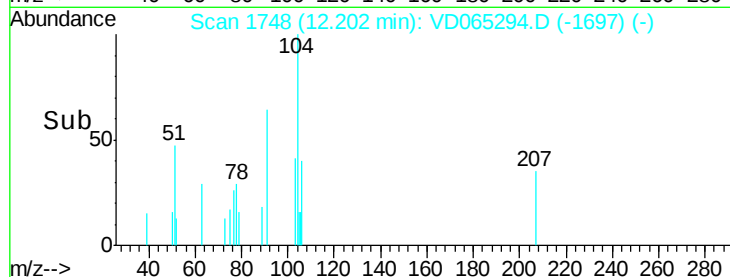
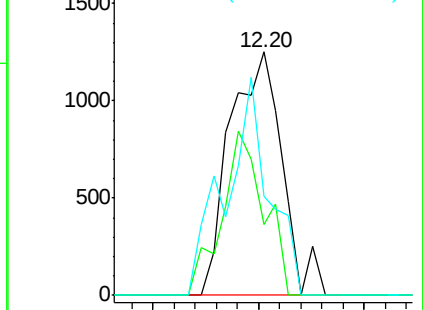
103 74.7 43.4 65.2#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 104.592 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

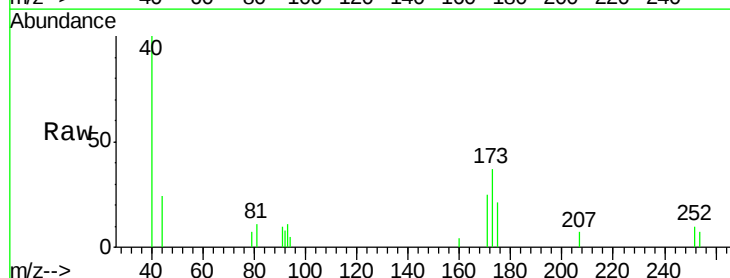
Tgt Ion:173 Resp: 2869

Ion Ratio Lower Upper

173 100

175 46.7 24.4 73.4

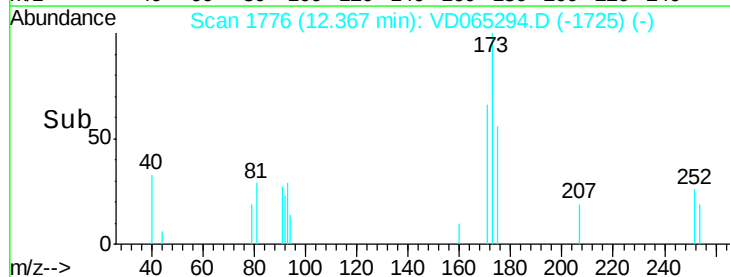
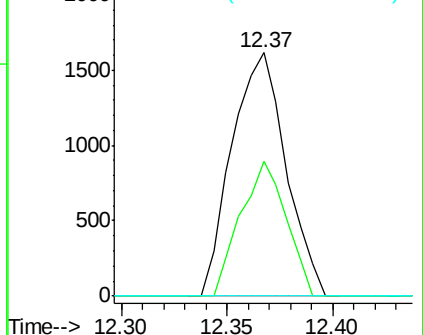
254 0.0 0.0 0.0

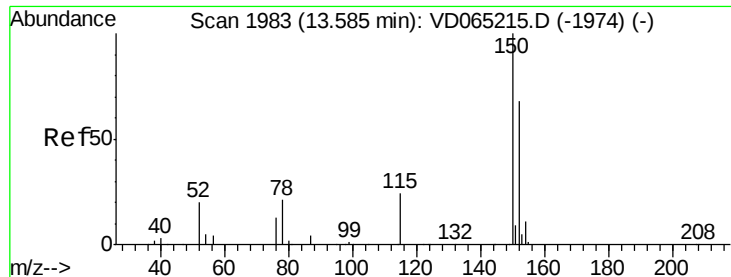


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MSD

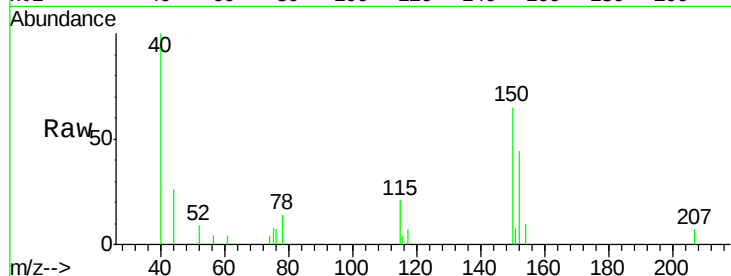
Tot Ion:152 Resp: 2988

Ion Ratio Lower Upper

152 100

115 59.2 27.6 82.8

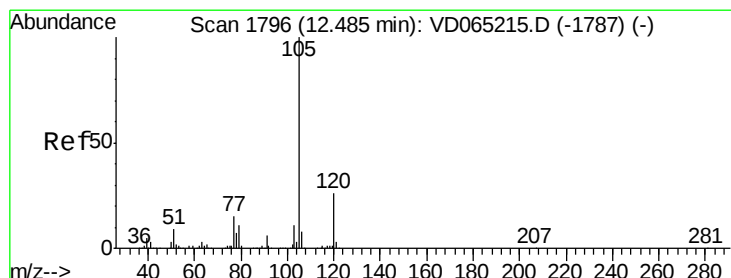
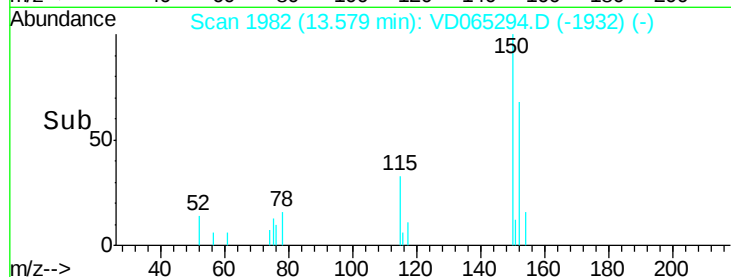
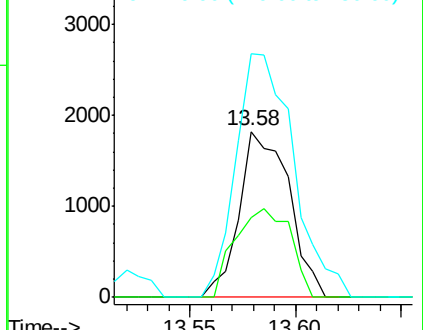
150 169.7 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 22.920 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065294.D

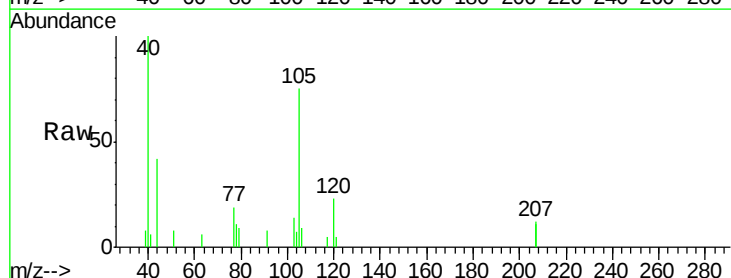
Acq: 24 Feb 2020 14:59

Tgt Ion:105 Resp: 4534

Ion Ratio Lower Upper

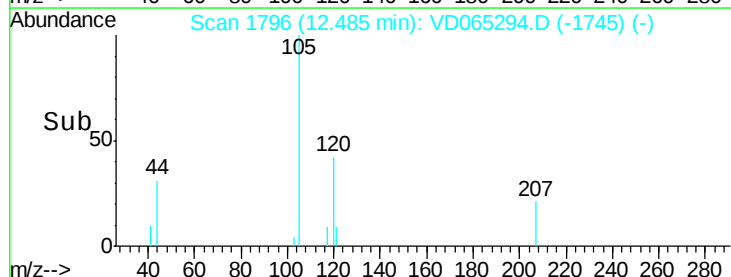
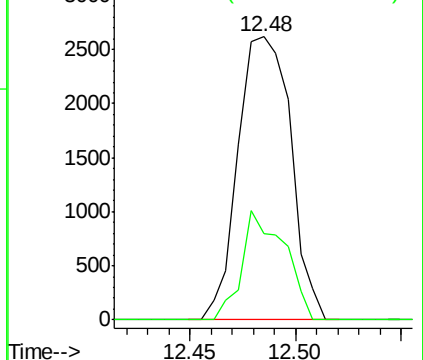
105 100

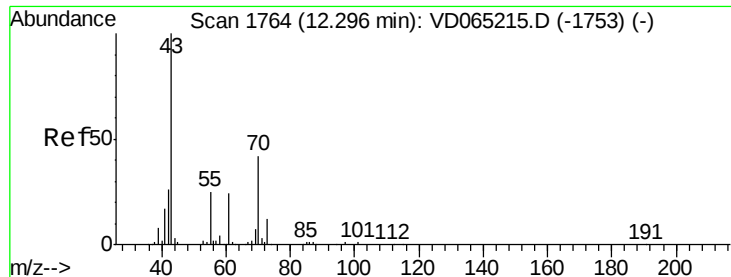
120 31.1 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

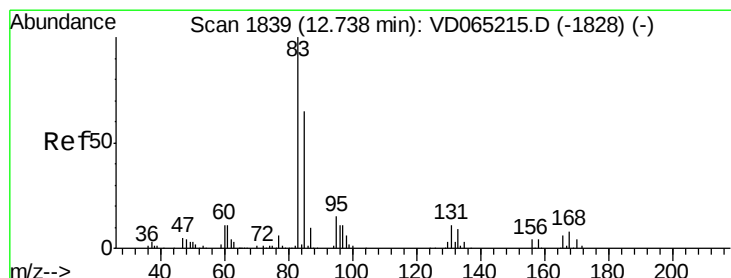
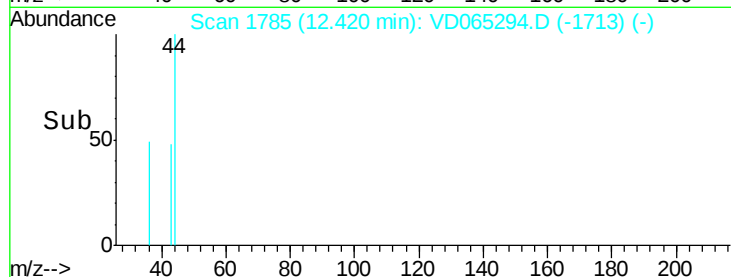
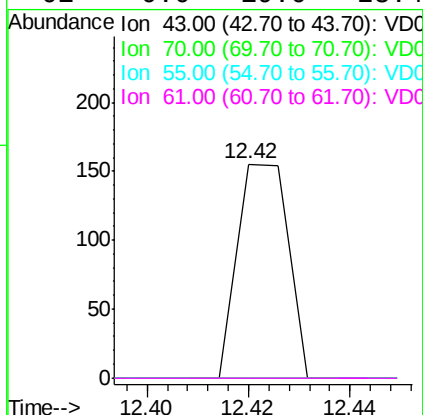
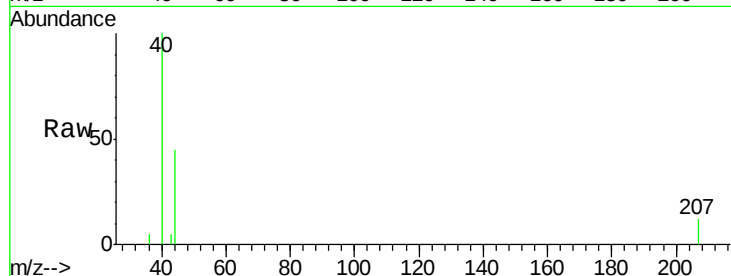




#74
N-amvl acetate
Concen: 2.480 ug/l
RT: 12.42 min Scan# 1785
Delta R.T. 0.12 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

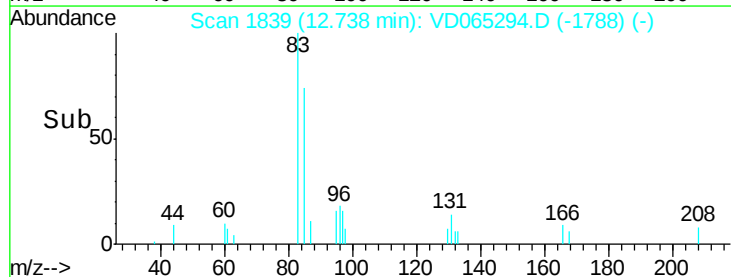
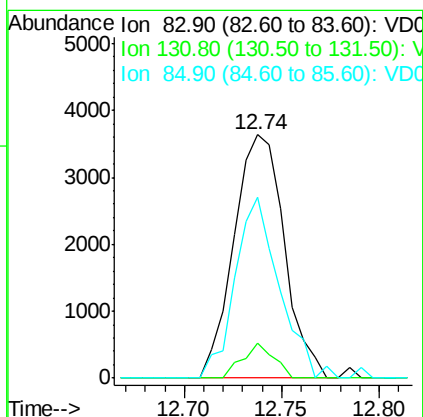
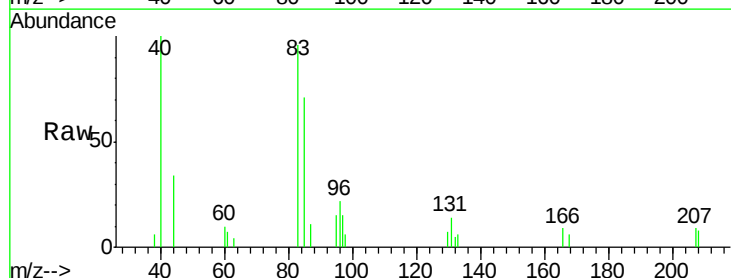
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MSD

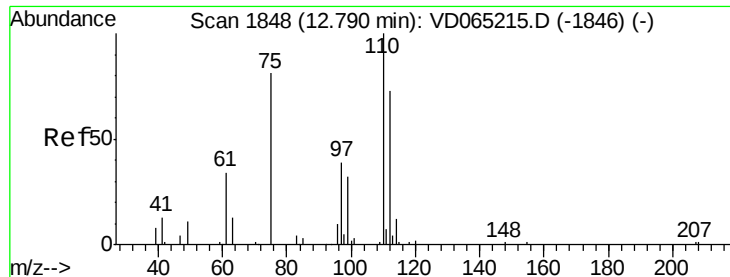
Tot Ion: 43 Resp: 109
Ion Ratio Lower Upper
43 100
70 0.0 33.7 50.5#
55 0.0 20.7 31.1#
61 0.0 19.0 28.4#



#75
1,1,2,2-Tetrachloroethane
Concen: 181.950 ug/l
RT: 12.74 min Scan# 1839
Delta R.T. 0.00 min
Lab File: VD065294.D
Acq: 24 Feb 2020 14:59

Tgt Ion: 83 Resp: 6496
Ion Ratio Lower Upper
83 100
131 9.0 5.4 16.2
85 65.2 31.6 94.8

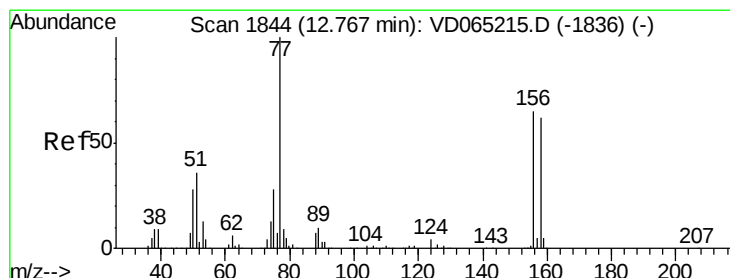
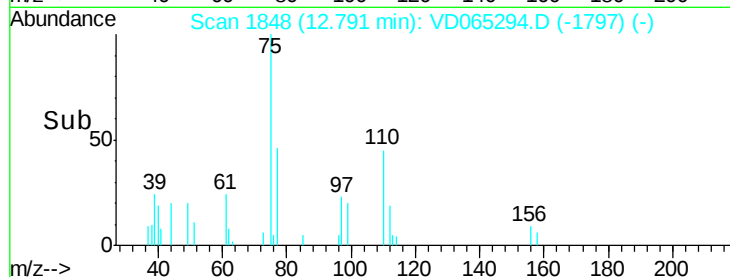
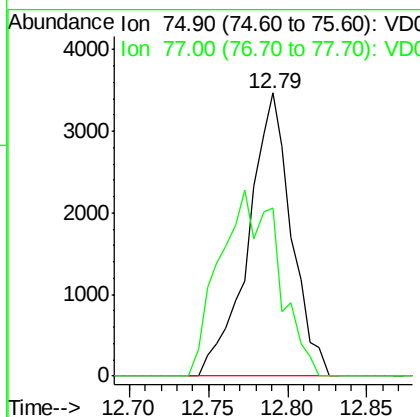
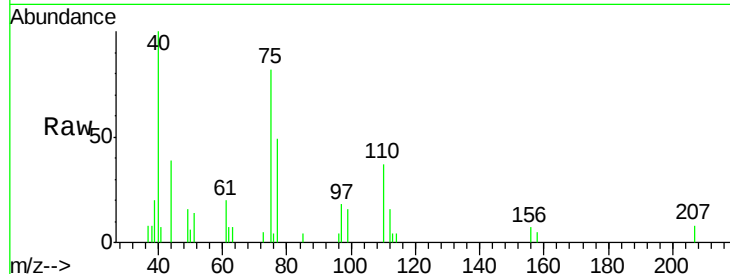




#76
 1,2,3-Trichloropropane
 Concen: 257.722 ug/l
 RT: 12.79 min Scan# 1848
 Delta R.T. 0.00 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

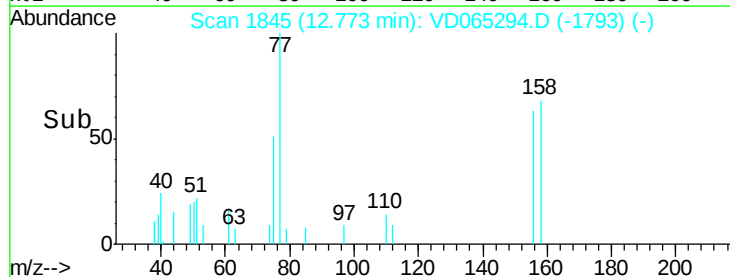
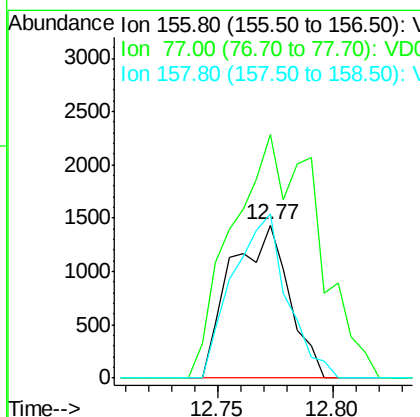
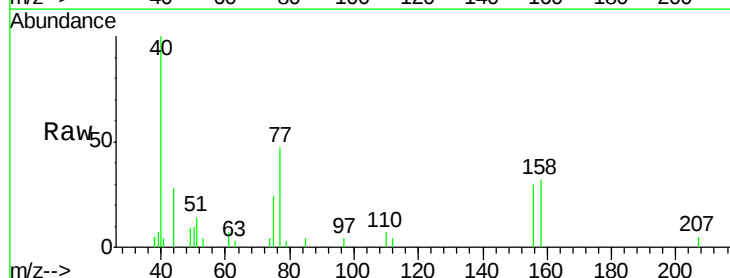
Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MSD

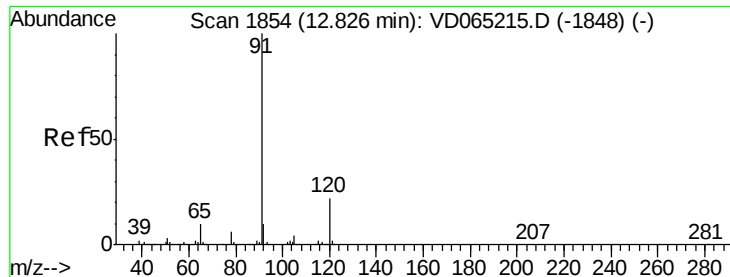
Tot Ion: 75 Resp: 6552
 Ion Ratio Lower Upper
 75 100
 77 89.5 0.0 0.0#



#77
 Bromobenzene
 Concen: 51.056 ug/l
 RT: 12.77 min Scan# 1845
 Delta R.T. 0.01 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Tgt Ion: 156 Resp: 2508
 Ion Ratio Lower Upper
 156 100
 77 233.9 86.6 259.7
 158 100.8 48.1 144.3





#78

n-propylbenzene

Concen: 17.323 ug/l

RT: 12.83 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

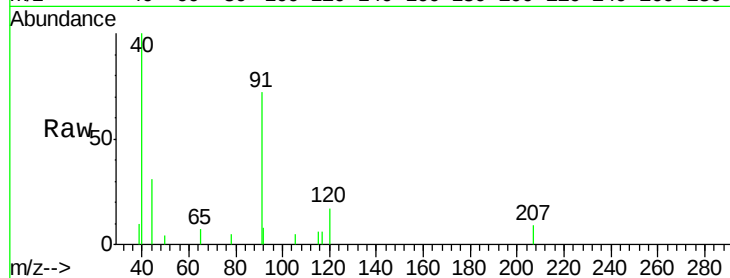
LIED-TS001-01MSD

Tot Ion: 91 Resp: 4118

Ion Ratio Lower Upper

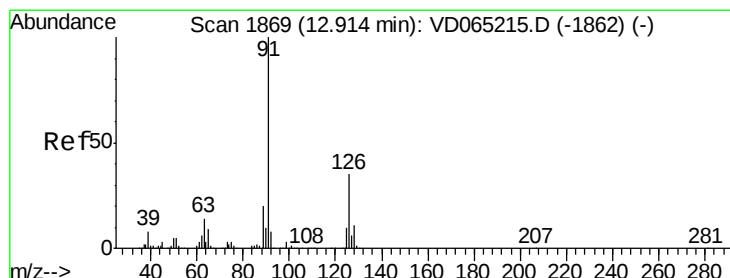
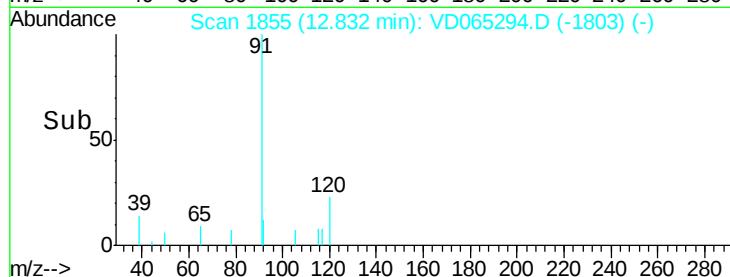
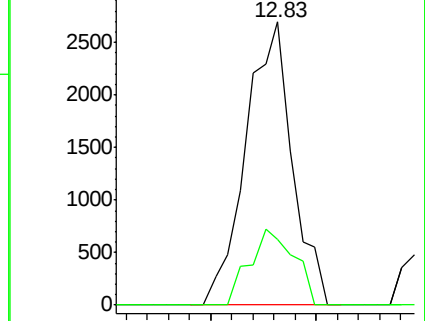
91 100

120 25.7 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 29.367 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD065294.D

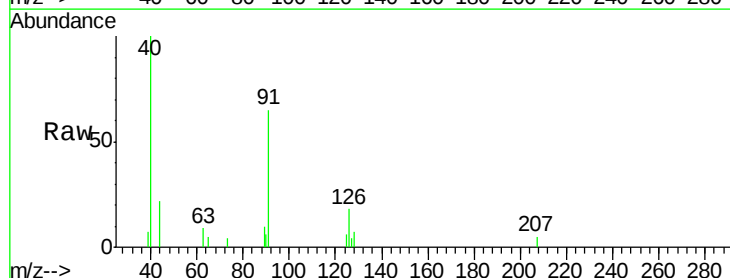
Acq: 24 Feb 2020 14:59

Tgt Ion: 91 Resp: 3911

Ion Ratio Lower Upper

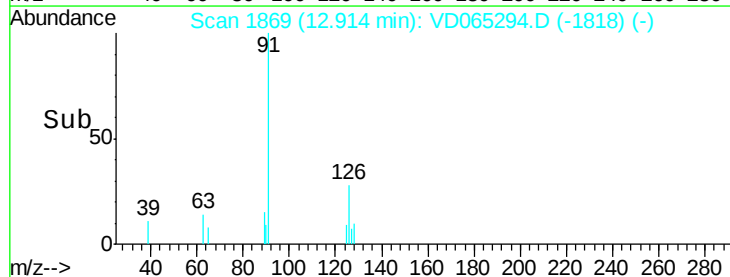
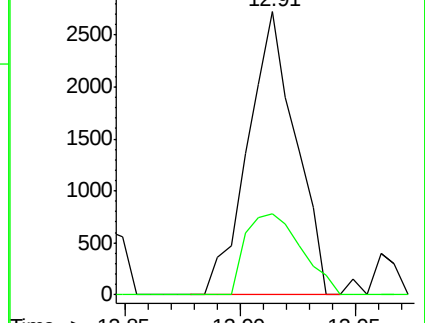
91 100

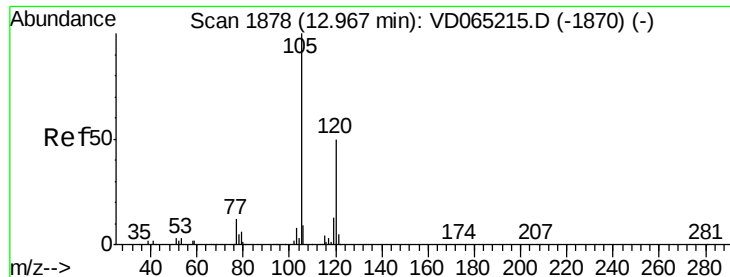
126 33.8 17.5 52.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 21.807 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

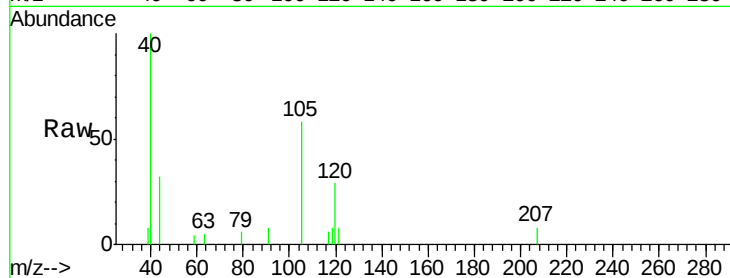
LIED-TS001-01MSD

Tot Ion:105 Resp: 3553

Ion Ratio Lower Upper

105 100

120 49.5 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

2500

2000

1500

1000

500

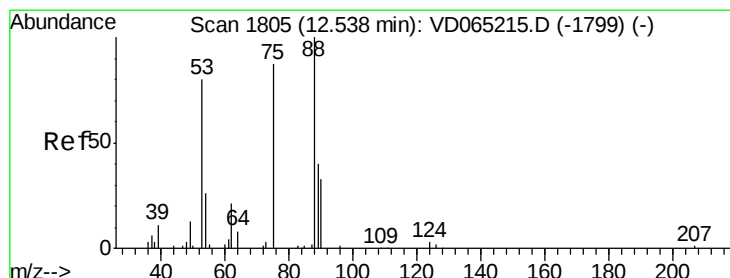
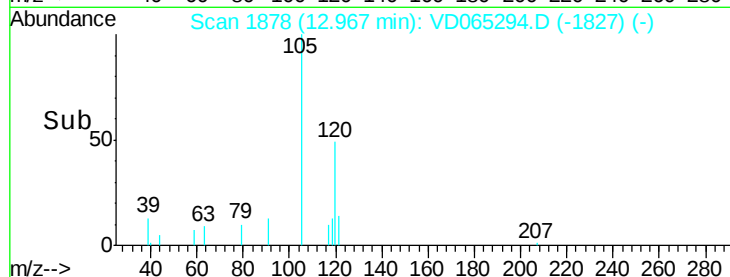
0

12.95

12.97

13.00

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 23.866 ug/l

RT: 12.53 min Scan# 1803

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

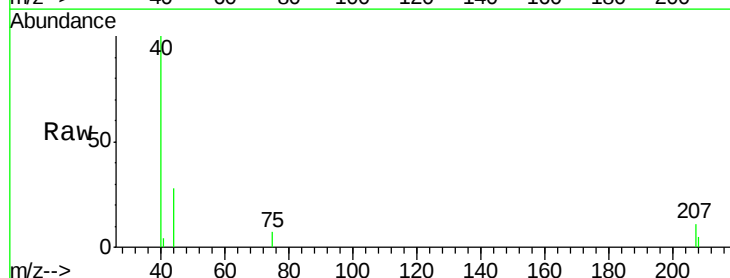
Tgt Ion: 75 Resp: 281

Ion Ratio Lower Upper

75 100

53 69.0 77.6 116.4#

89 20.3 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

300

200

100

0

12.50

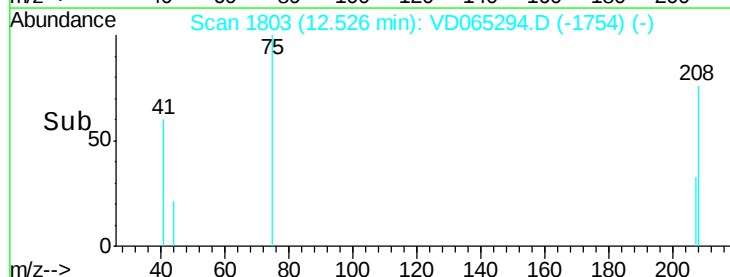
12.52

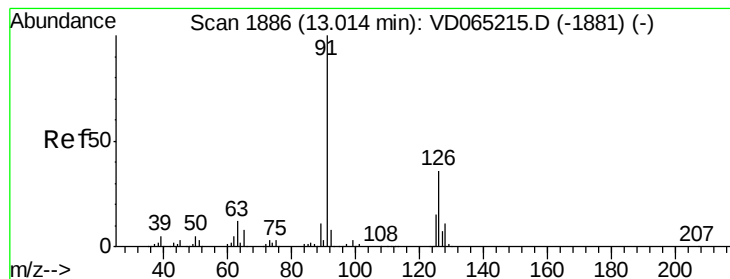
12.53

12.54

12.56

Time-->





#82

4-Chlorotoluene

Concen: 25.526 ug/l

RT: 13.01 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

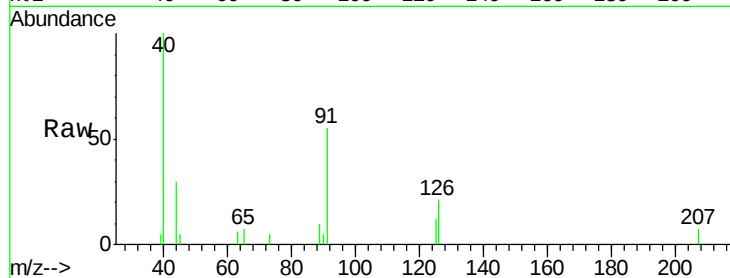
LIED-TS001-01MSD

Tot Ion: 91 Resp: 3609

Ion Ratio Lower Upper

91 100

126 39.2 17.4 52.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.90 (125.60 to 126.60): V

13.01

2000

1500

1000

500

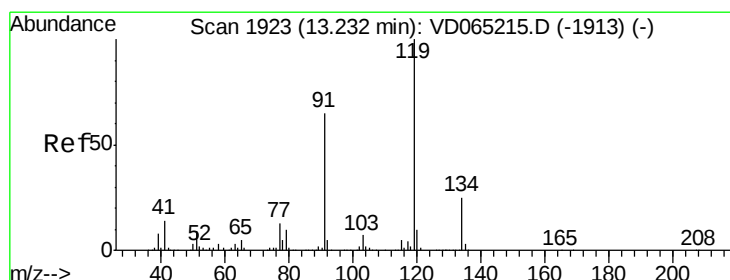
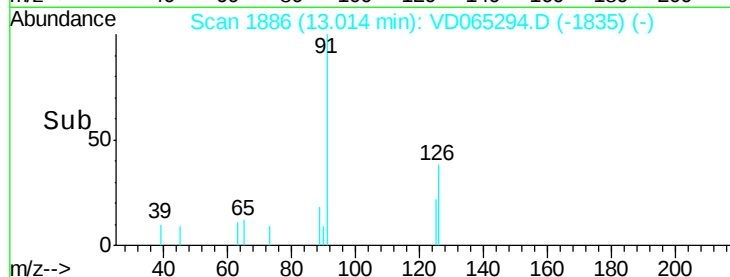
0

Time-->

12.95

13.00

13.05



#83

tert-Butylbenzene

Concen: 20.102 ug/l

RT: 13.23 min Scan# 1922

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

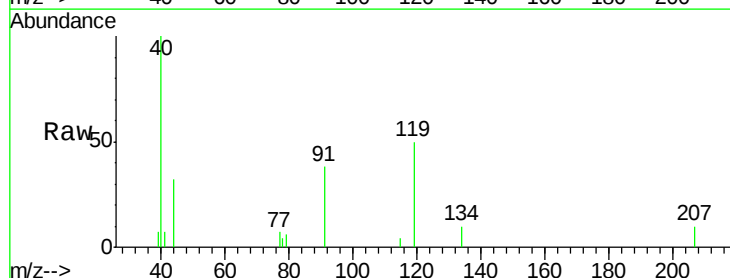
Tgt Ion: 119 Resp: 2745

Ion Ratio Lower Upper

119 100

91 68.9 31.9 95.5

134 19.8 13.8 41.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

2500

2000

1500

1000

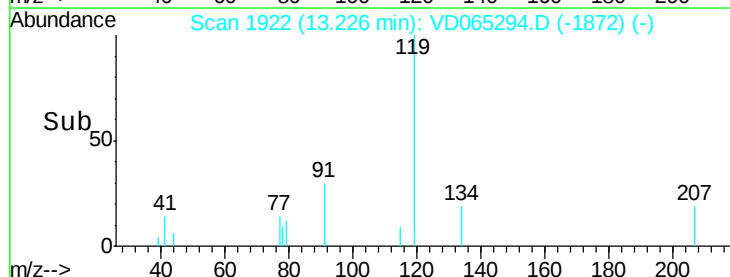
500

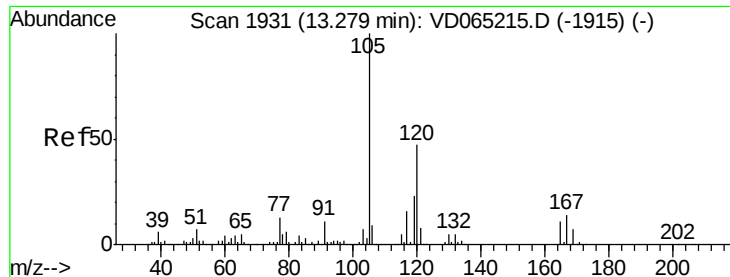
0

Time-->

13.20

13.25

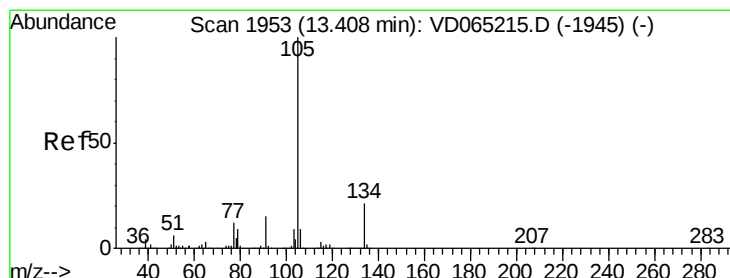
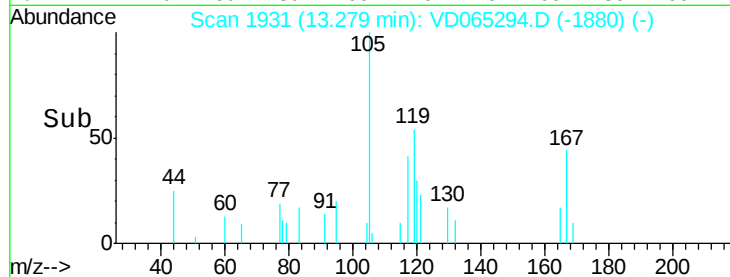
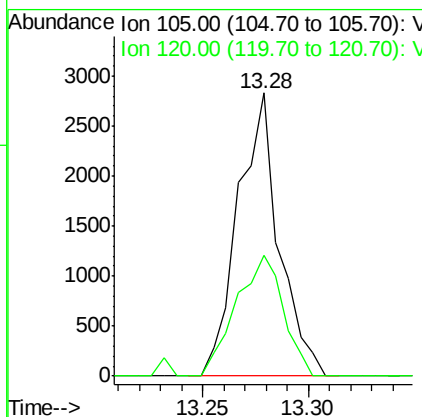
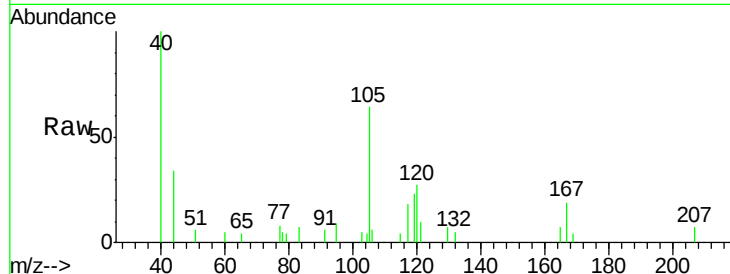




#84
 1,2,4-Trimethylbenzene
 Concen: 23.326 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.00 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

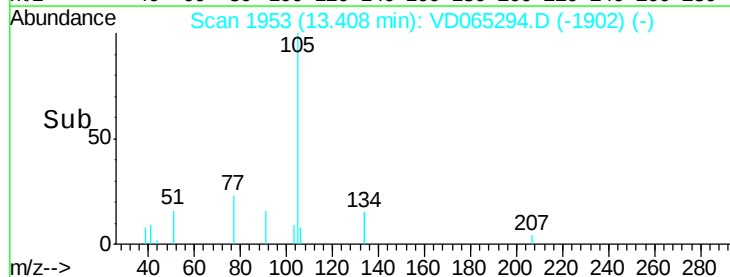
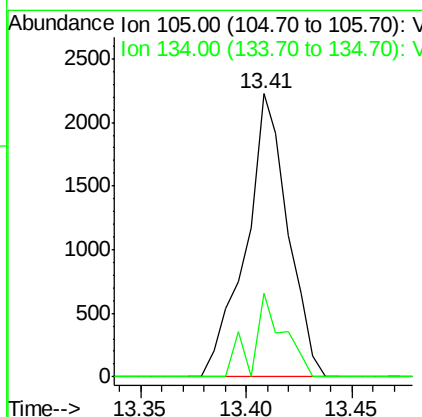
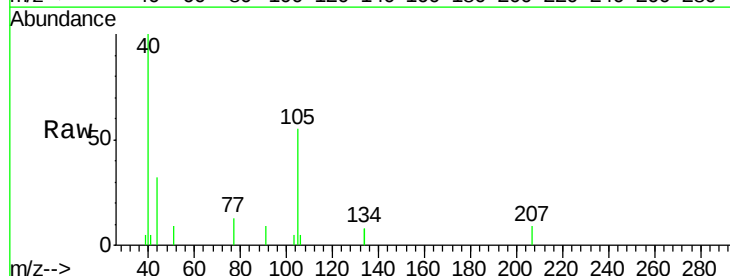
Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MSD

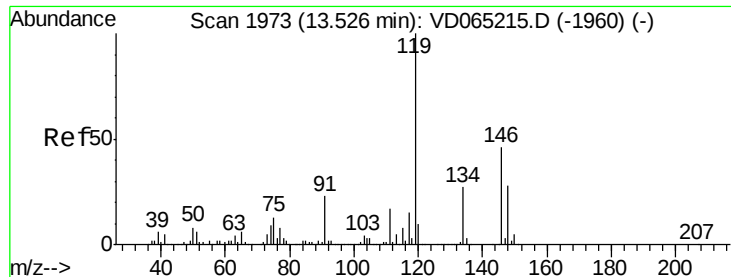
Tot Ion:105 Resp: 3804
 Ion Ratio Lower Upper
 105 100
 120 49.2 23.3 69.9



#85
 sec-Butylbenzene
 Concen: 15.683 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Tgt Ion:105 Resp: 3086
 Ion Ratio Lower Upper
 105 100
 134 21.6 10.3 30.9





#86

p-Isopropyltoluene

Concen: 10.848 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MSD

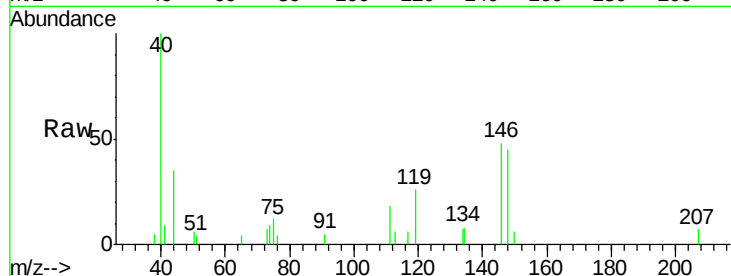
Tot Ion:119 Resp: 1952

Ion Ratio Lower Upper

119 100

134 33.4 13.3 39.8

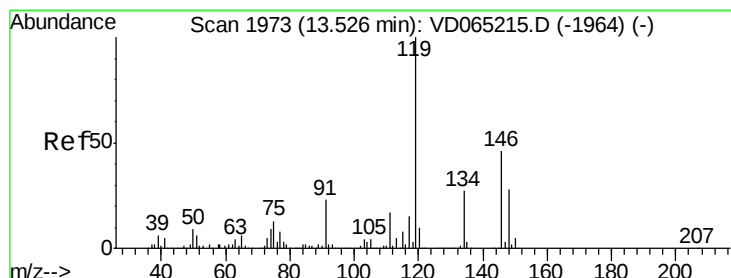
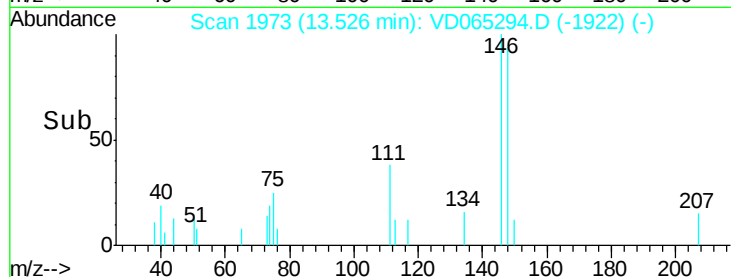
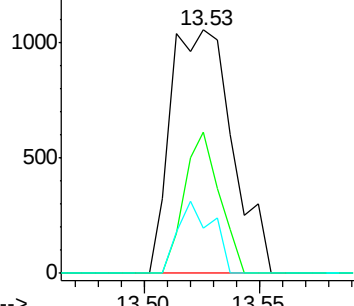
91 16.8 11.1 33.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#87

1,3-Dichlorobenzene

Concen: 35.435 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

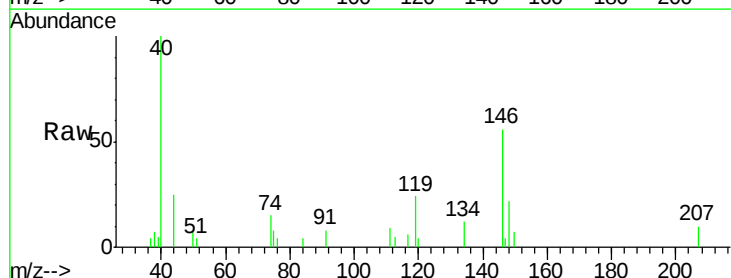
Tgt Ion:146 Resp: 3365

Ion Ratio Lower Upper

146 100

111 31.2 18.6 55.8

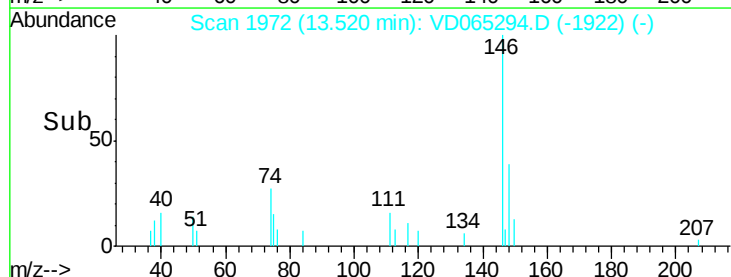
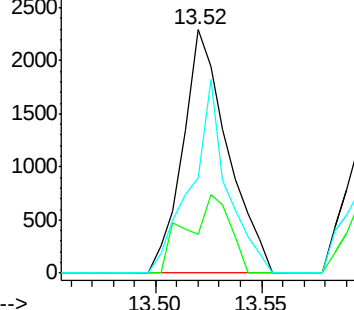
148 64.3 31.4 94.3

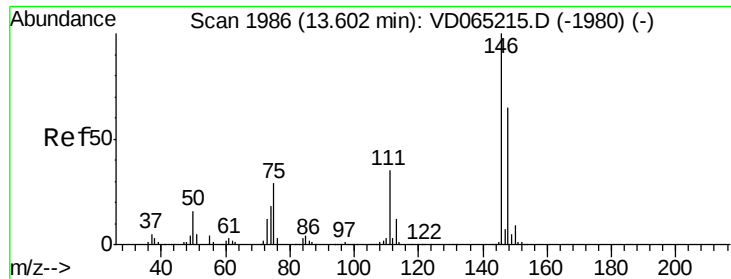


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 33.652 ug/l

RT: 13.61 min Scan# 1987

Delta R.T. 0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MSD

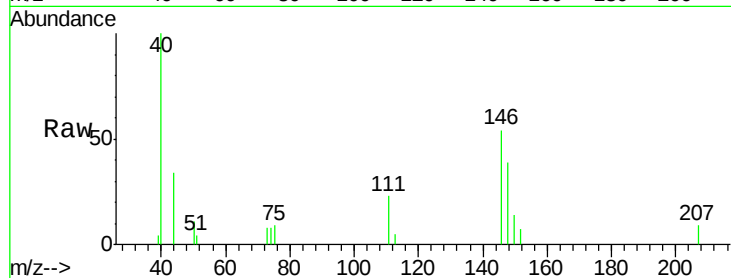
Tot Ion:146 Resp: 3154

Ion Ratio Lower Upper

146 100

111 42.2 18.4 55.2

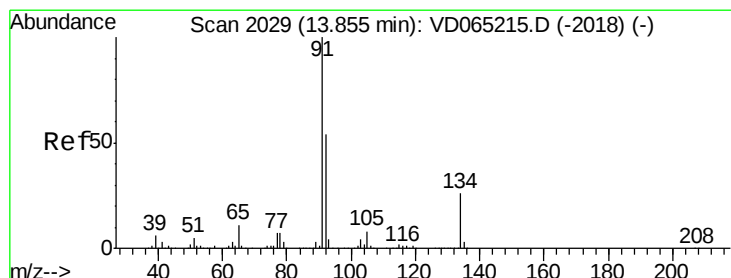
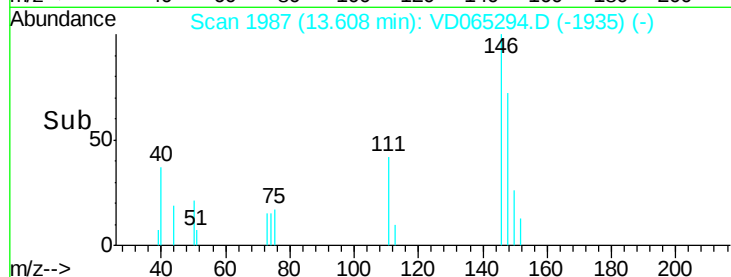
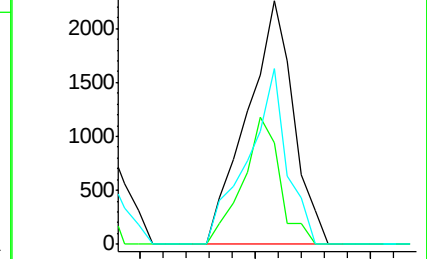
148 61.2 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 13.346 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

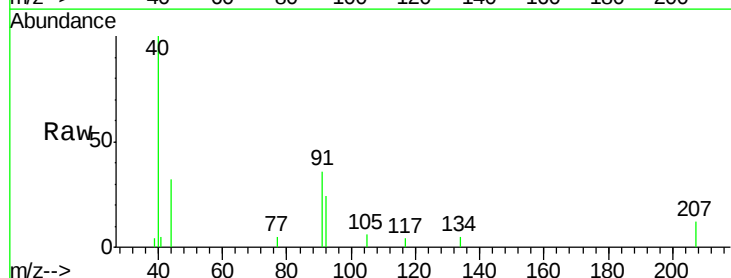
Tgt Ion: 91 Resp: 2213

Ion Ratio Lower Upper

91 100

92 47.6 27.0 80.8

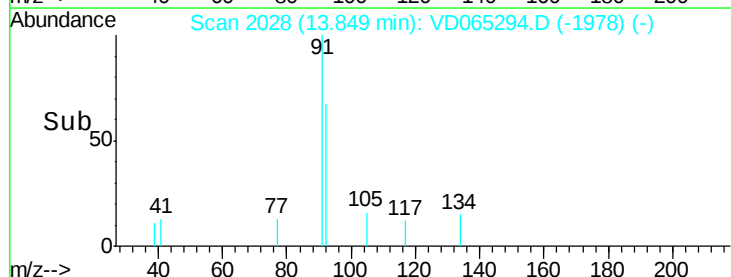
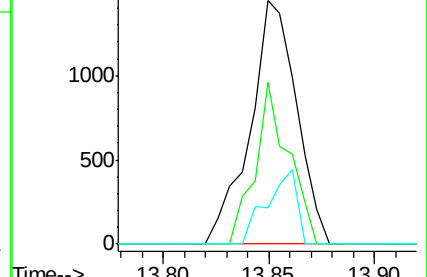
134 19.7 13.5 40.4

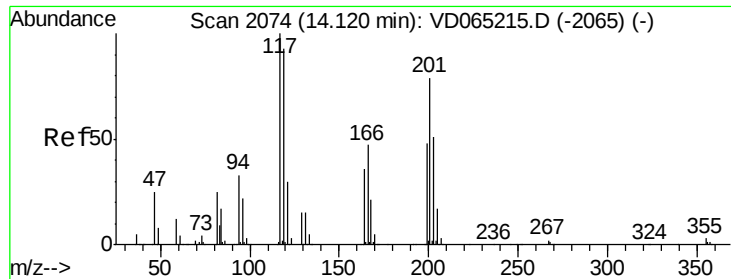


Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): VDC





#90

Hexachloroethane

Concen: 24.112 ug/l

RT: 14.13 min Scan# 2075

Delta R.T. 0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Instrument :

MSVOA_D

ClientSampleId :

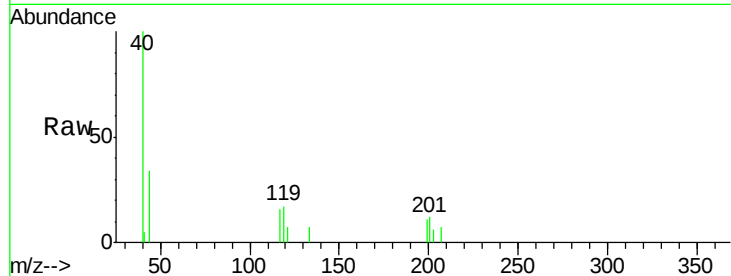
LIED-TS001-01MSD

Tot Ion:117 Resp: 881

Ion Ratio Lower Upper

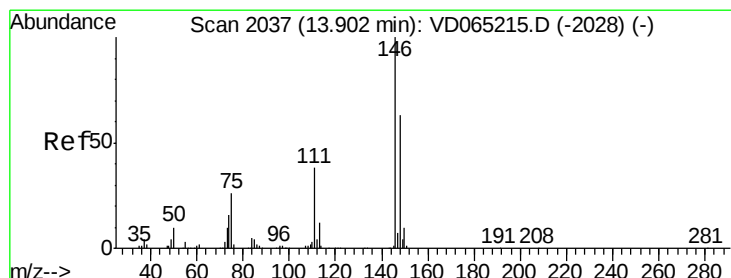
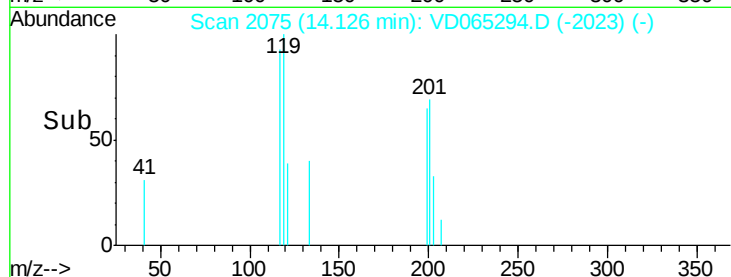
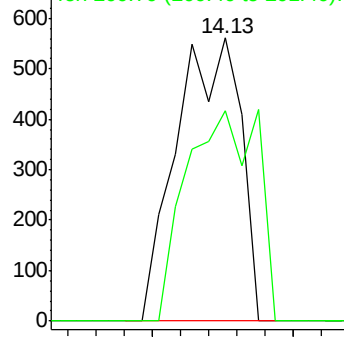
117 100

201 82.9 41.3 124.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 41.882 ug/l

RT: 13.90 min Scan# 2037

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

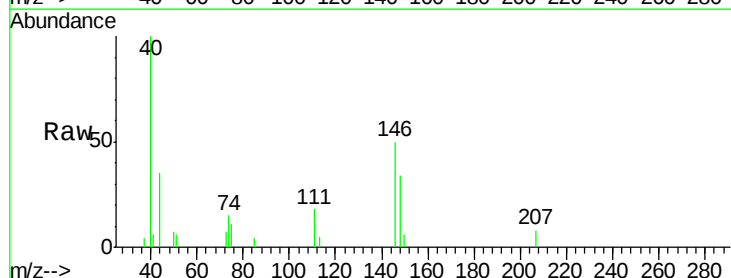
Tgt Ion:146 Resp: 3415

Ion Ratio Lower Upper

146 100

111 40.8 19.7 59.0

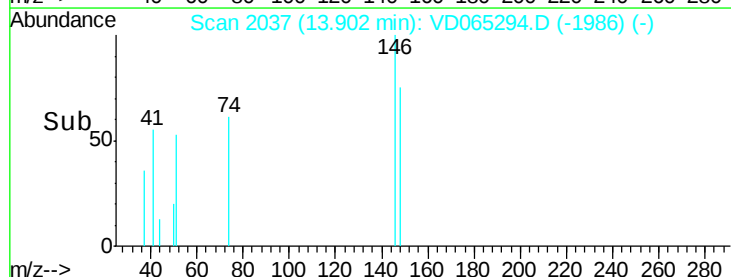
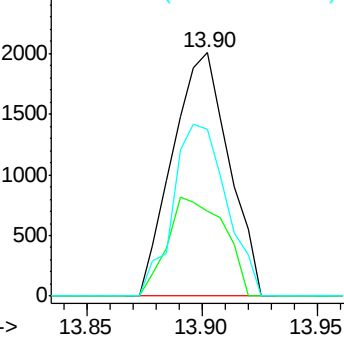
148 67.2 32.0 96.2

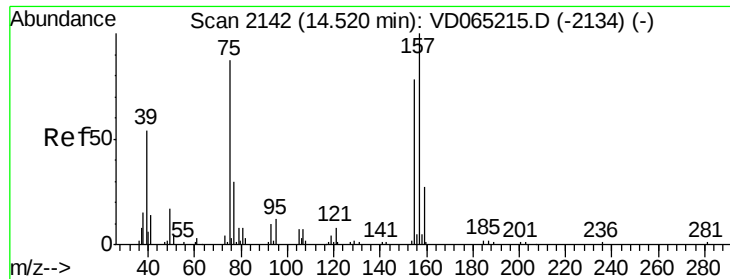


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

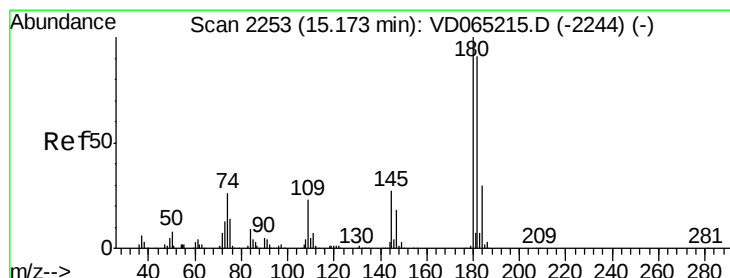
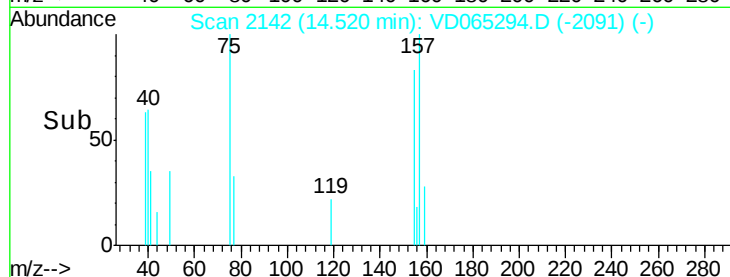
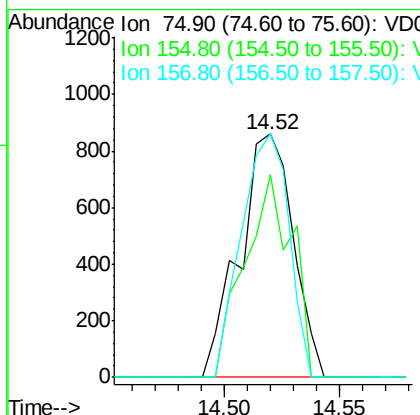
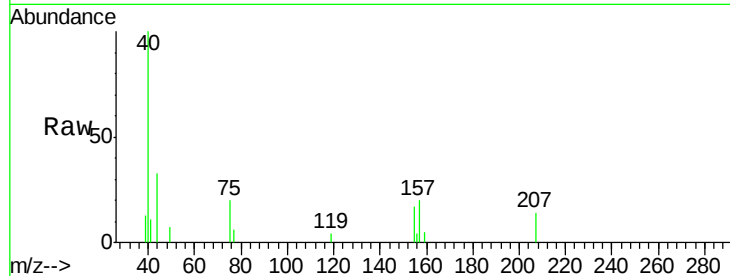




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 251.915 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

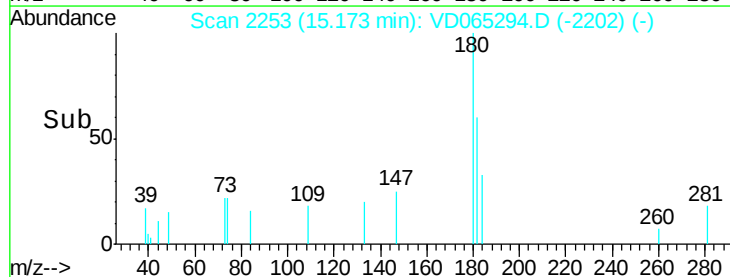
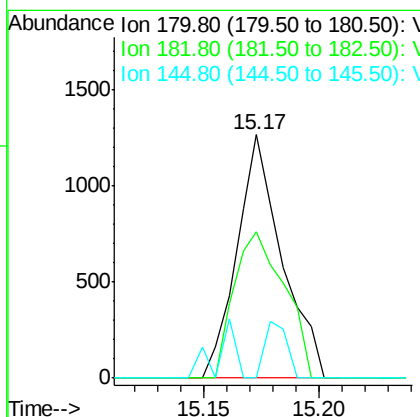
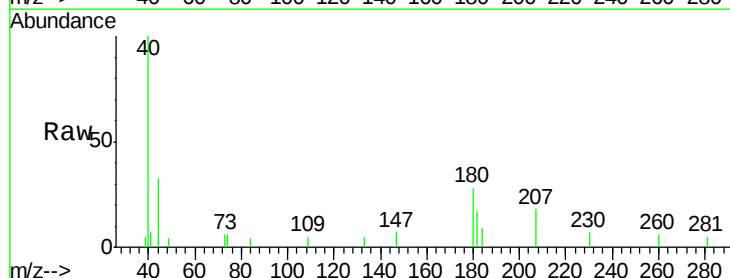
Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MSD

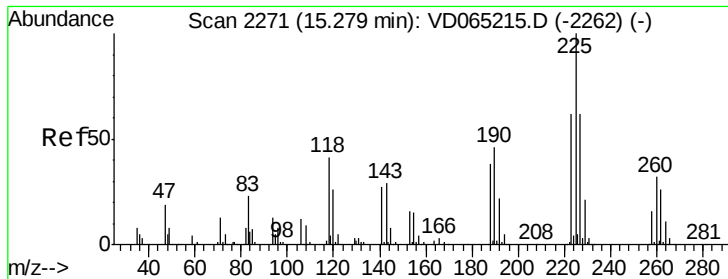
Tot Ion: 75 Resp: 1386
 Ion Ratio Lower Upper
 75 100
 155 73.4 42.3 126.9
 157 89.0 56.7 170.1



#93
 1,2,4-Trichlorobenzene
 Concen: 32.098 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Tgt Ion: 180 Resp: 1712
 Ion Ratio Lower Upper
 180 100
 182 67.3 46.9 140.6
 145 11.3 13.9 41.7#





#94

Hexachlorobutadiene

Concen: 9.178 ug/l

RT: 15.28 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

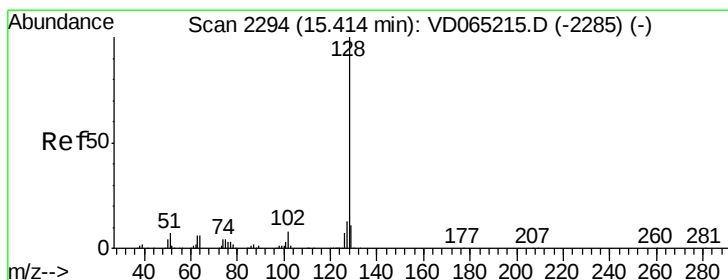
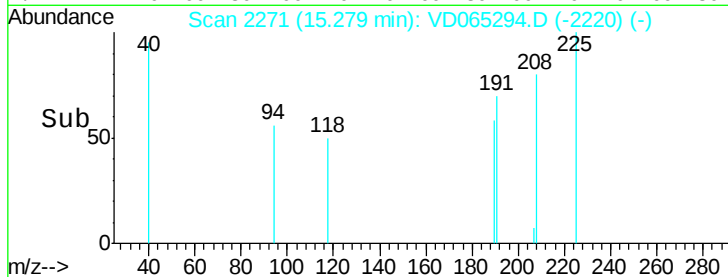
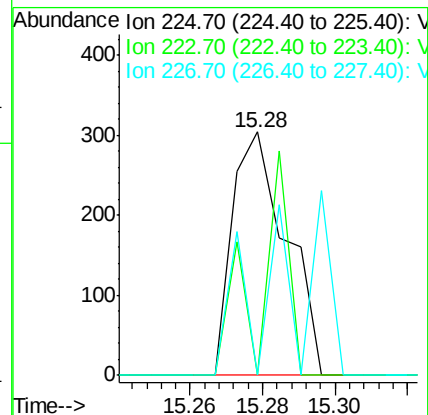
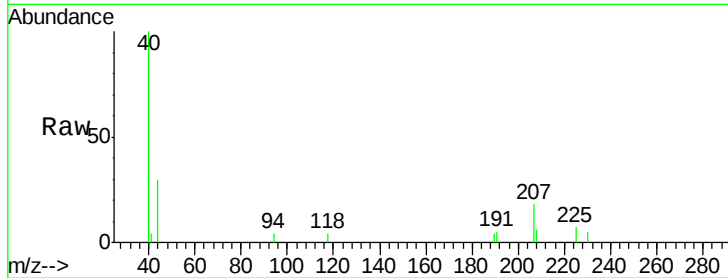
Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MSD

Tot Ion:	225	Resp:	314
Ion	Ratio	Lower	Upper
225	100		
223	50.3	31.4	94.2
227	20.1	31.7	95.1#



#95

Naphthalene

Concen: 67.330 ug/l

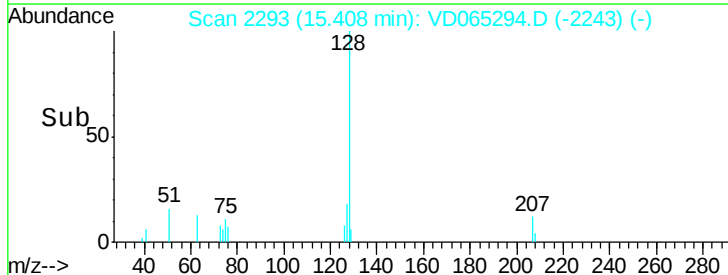
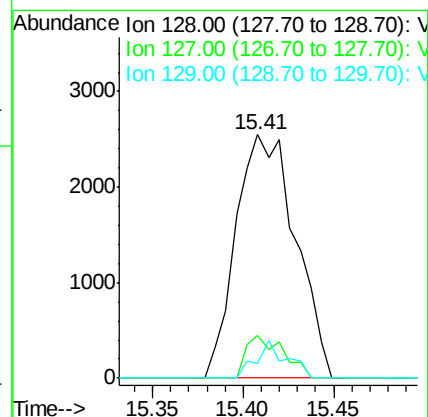
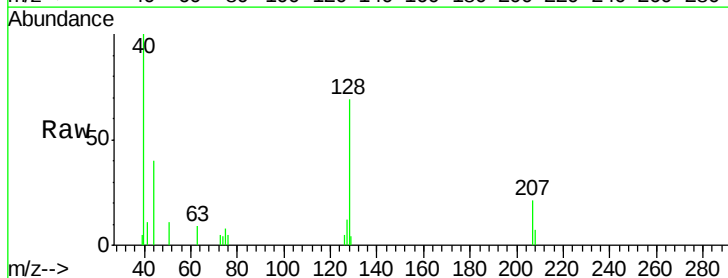
RT: 15.41 min Scan# 2293

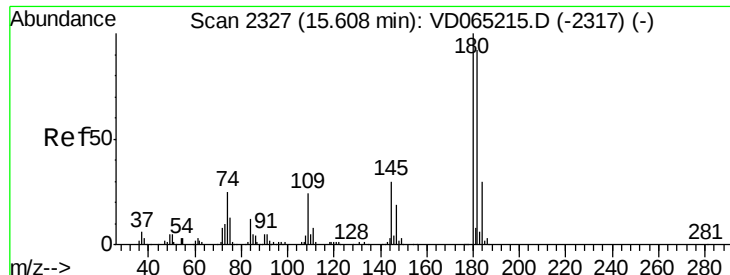
Delta R.T. -0.01 min

Lab File: VD065294.D

Acq: 24 Feb 2020 14:59

Tgt Ion:	128	Resp:	5838
Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.3	15.5
129	7.9	8.8	13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 34.777 ug/l
 RT: 15.61 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VD065294.D
 Acq: 24 Feb 2020 14:59

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	105.6	46.9	140.6
145	30.4	15.4	46.1

