

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033663.D
 Acq On : 6 May 2019 17:51
 Operator : SY/AP
 Sample : VL0506ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:41 PM

Quant Time: May 07 04:19:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	961048	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2436096	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2611174m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2102602	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1574309	6.984	ppbv	99
3) Chlorodifluoromethane	3.01	51	1147035	8.265	ppbv	99
4) Chloromethane	3.17	50	639964	8.869	ppbv	100
5) Vinyl Chloride	3.29	62	626998	8.938	ppbv	96
6) Bromomethane	3.51	94	394035	8.842	ppbv	95
7) Chloroethane	3.60	64	231518	9.091	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1637306	8.825	ppbv	100
9) Propene	3.03	41	490796	9.276	ppbv	100
10) Heptane	8.25	43	1374198	10.524	ppbv	99
11) Trichlorofluoromethane	4.00	101	1907979	9.065	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1313251	9.281	ppbv	100
13) Ethanol	3.65	45	99924	6.292	ppbv	100
14) Bromoethene	3.79	108	521377	9.348	ppbv	100
15) Acetone	3.90	43	1187523	8.306	ppbv	99
16) 1,3-Butadiene	3.36	39	561871	9.163	ppbv	98
17) tert-Butyl alcohol	4.35	59	1097003	10.102	ppbv	100
18) 1,1-Dichloroethene	4.35	96	569997	9.331	ppbv	97
19) Isopropyl Alcohol	4.02	45	798798	9.094	ppbv	100
20) Methylene Chloride	4.41	84	494791	9.114	ppbv	97
21) Allyl Chloride	4.48	41	849392	9.815	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	590324	9.626	ppbv	99
23) Vinyl Acetate	5.15	43	1887295	10.159	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1294110	9.208	ppbv	99
25) Ethyl Acetate	5.77	43	2193835	9.431	ppbv	100
26) Hexane	5.78	57	957309	9.574	ppbv	99
27) Carbon Disulfide	4.62	76	1452259	10.619	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1663297	9.877	ppbv	100
29) Chloroform	5.85	83	1677362	9.330	ppbv	97
30) Cyclohexane	7.25	84	876687	10.441	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1002345	10.077	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	1754508	9.451	ppbv	99
34) 2-Butanone	5.33	43	1469194	9.418	ppbv	100
35) Carbon Tetrachloride	7.13	117	1950412	9.742	ppbv	100
36) Benzene	7.00	78	2112161	9.669	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1329126	8.720	ppbv	99
38) Trichloroethene	7.96	130	868065	10.833	ppbv	98
39) 1,2-Dichloropropane	7.74	63	904963	11.116	ppbv	98
40) 1,4-Dioxane	7.95	88	302987	9.312	ppbv	91
41) Tetrahydrofuran	6.15	42	834059	10.346	ppbv	100
42) Bromodichloromethane	7.92	83	1900207	9.656	ppbv	99
43) Methyl Methacrylate	8.14	69	872361	10.617	ppbv	100

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3602290	9.645	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1222509	12.122	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1352262	10.744	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	889705	9.516	ppbv	99
48) Dibromochloromethane	10.45	129	1660234	10.475	ppbv	100
49) Bromoform	13.20	173	1484993	10.786	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2349977	9.949	ppbv	99
51) 2-Hexanone	10.27	43	1941353	10.608	ppbv	100
52) Tetrachloroethene	11.37	164	830345	10.729	ppbv	99
53) Toluene	9.95	91	2549887	10.804	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1425300	10.120	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1125750	9.346	ppbv #	61
57) Chlorobenzene	12.30	112	2002827	9.342	ppbv	99
58) Ethyl Benzene	12.86	91	3567627	10.477	ppbv	97
59) m/p-Xylene	13.15	91	5971904m	19.911	ppbv	
60) o-Xylene	13.85	91	3030940	9.986	ppbv	100
61) Styrene	13.68	104	2251426	11.139	ppbv	100
62) Isopropylbenzene	14.83	105	3966155	9.570	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2042455	9.246	ppbv	100
64) n-propylbenzene	15.72	120	1018034	9.505	ppbv	99
65) tert-Butylbenzene	16.91	119	3529288	9.283	ppbv	99
66) Benzyl Chloride	17.16	91	1967747	11.378	ppbv	100
67) sec-Butylbenzene	17.46	105	4948804	9.330	ppbv	100
69) p-Isopropyltoluene	17.81	119	4168251	9.537	ppbv	100
70) n-Butylbenzene	18.71	91	4378598	9.448	ppbv	100
71) 2-Chlorotoluene	15.62	91	2951057	9.638	ppbv	100
72) 4-Ethyltoluene	16.00	105	3453696	9.680	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3282261	9.515	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3437881	8.966	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	2000527	8.638	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2017324	9.178	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1941271	9.048	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1339092	7.875	ppbv	100
79) Naphthalene	22.41	128	3959881	11.311	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	2636402	19.920	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	2105392	10.351	ppbv	99

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

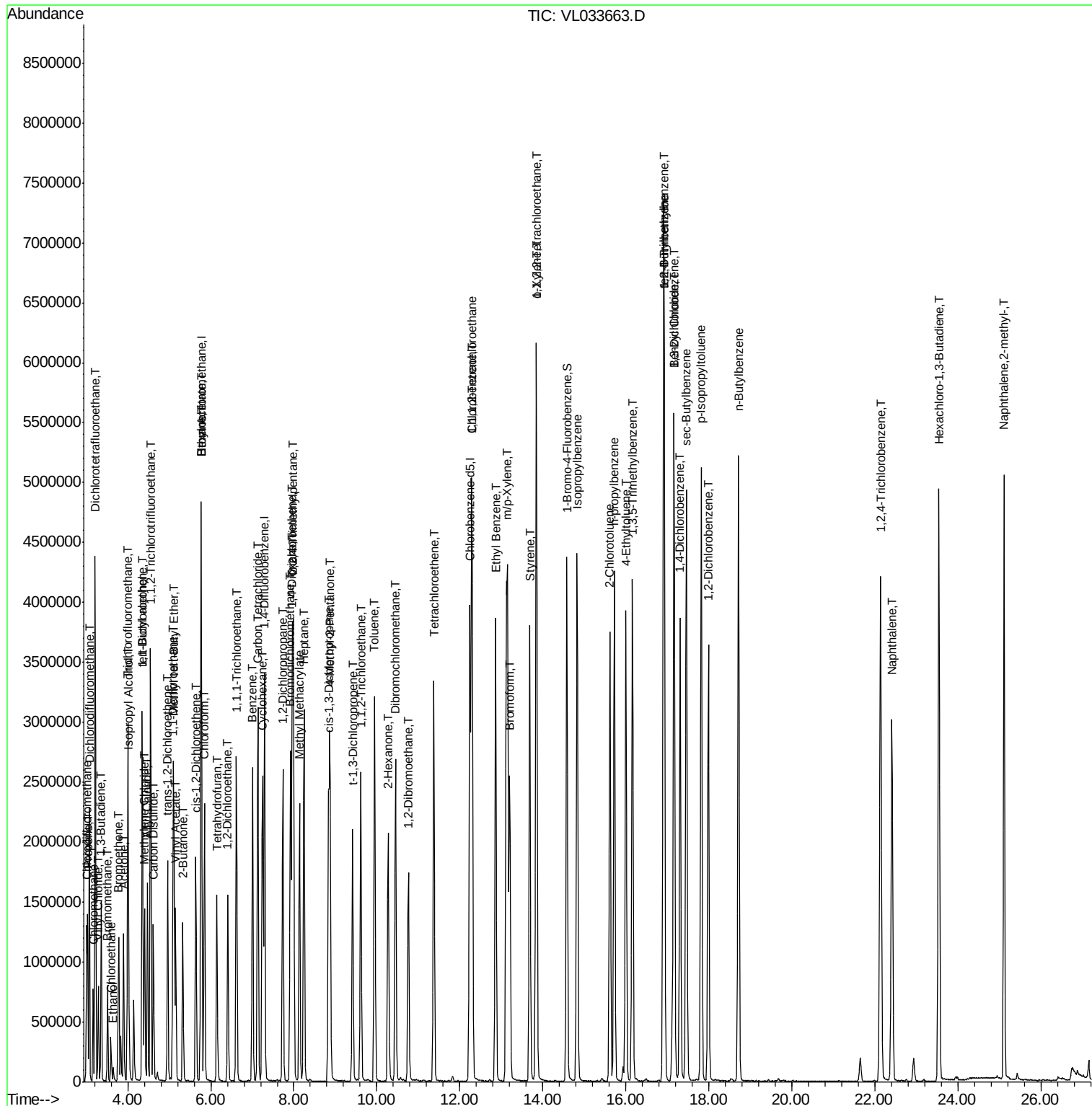
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050619\
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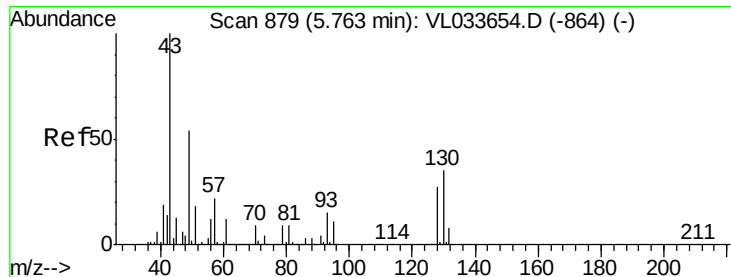
Instrument :
MSVOA_L
ClientSampleId :
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QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

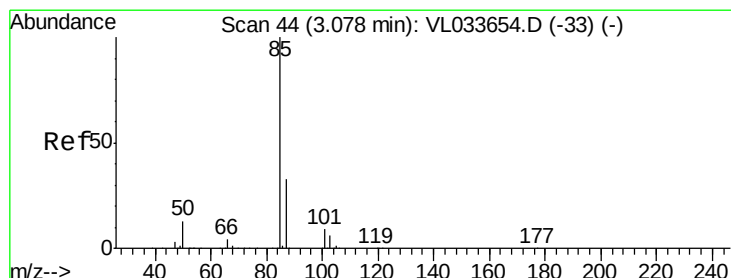
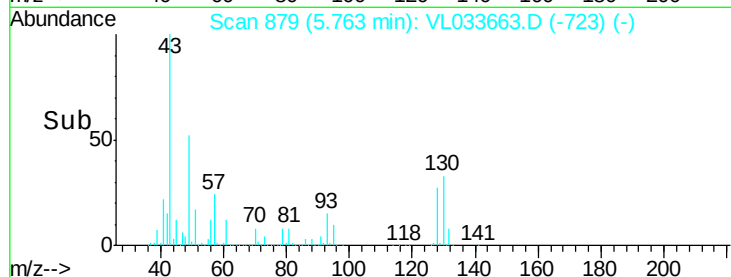
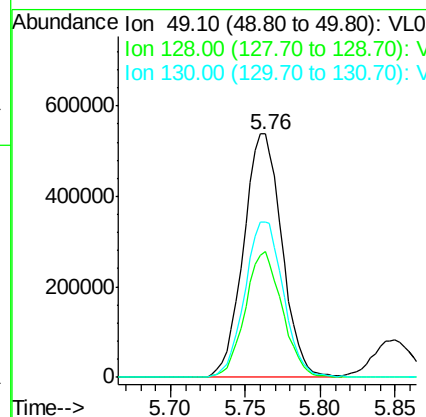
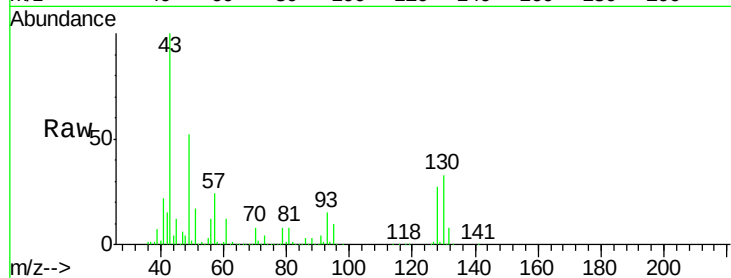
ClientSampleId :

VL0506ABS01

Tot Ion:	49	Resp:	961048
Ion	Ratio	Lower	Upper
49	100		
128	49.9	24.8	74.3
130	64.3	32.1	96.5

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#2

Dichlorodifluoromethane

Concen: 6.984 ppbv

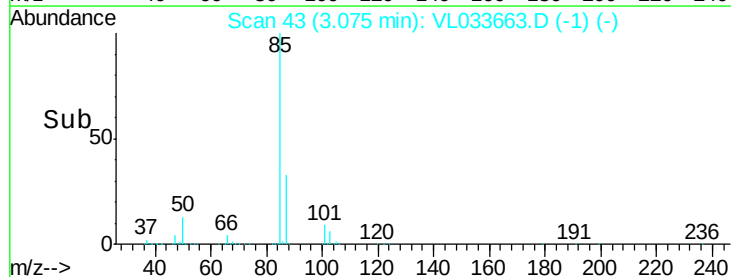
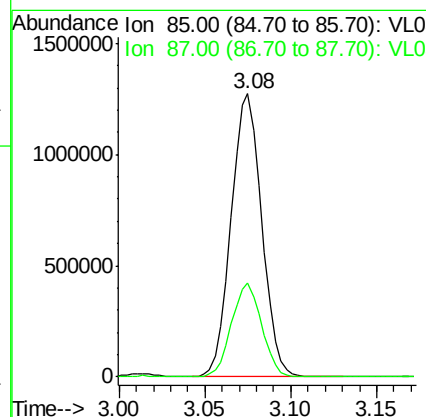
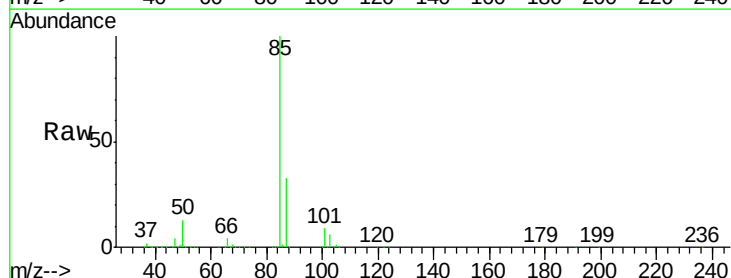
RT: 3.08 min Scan# 43

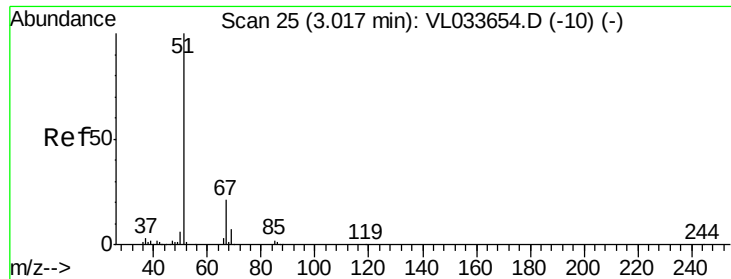
Delta R.T. -0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Tgt Ion:	85	Resp:	1574309
Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.0	39.0





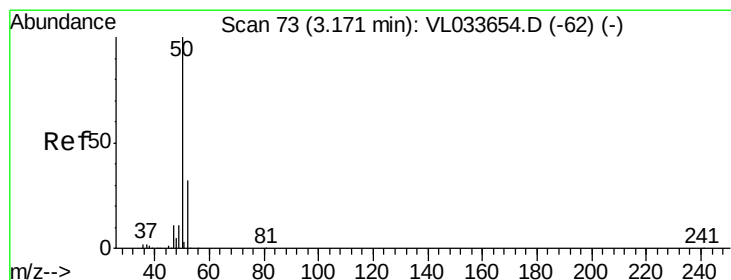
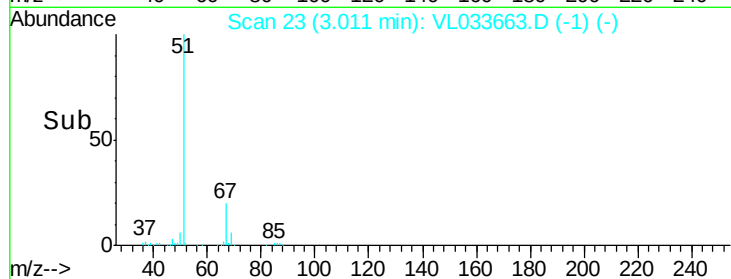
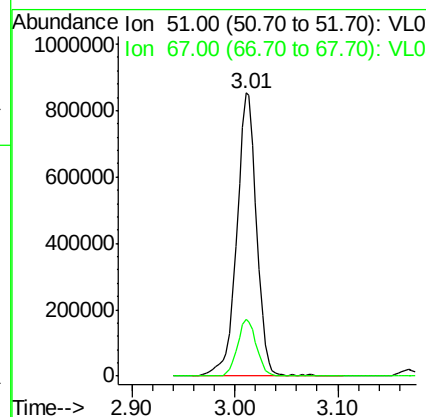
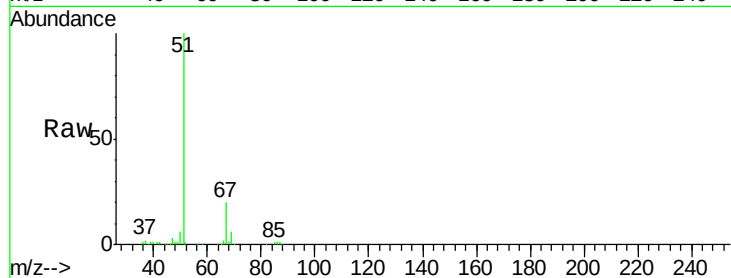
#3
Chlorodifluoromethane
Concen: 8.265 ppbv
RT: 3.01 min Scan# 23
Delta R.T. -0.01 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
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ClientSampleId :
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Tot Ion: 51 Resp: 1147035
Ion Ratio Lower Upper
51 100
67 19.2 15.7 23.5

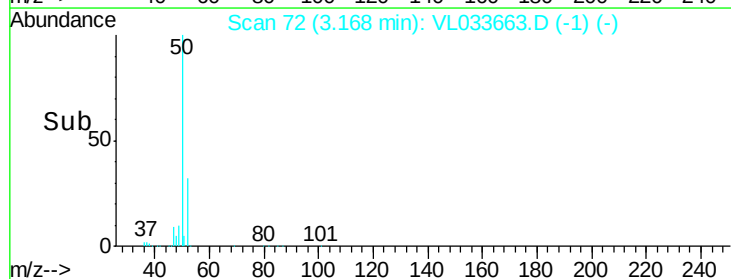
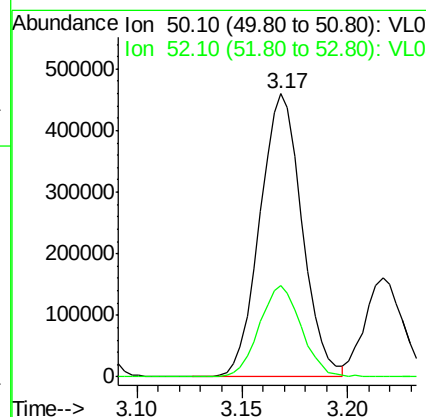
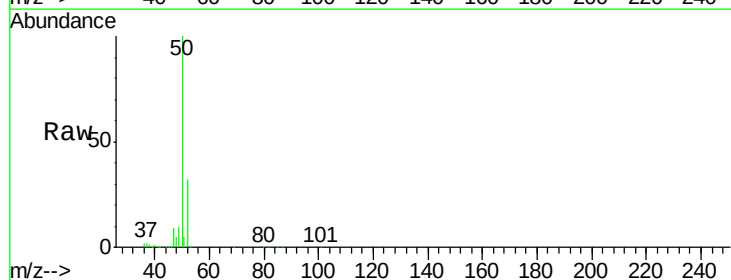
Manual Integrations
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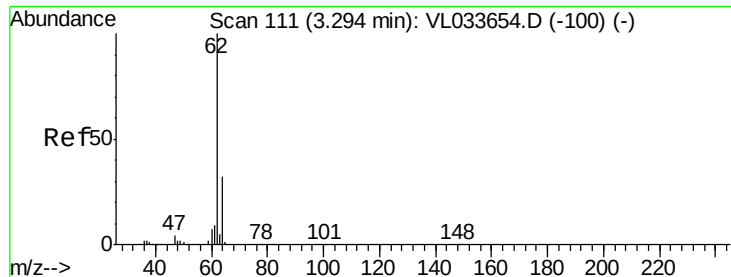
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#4
Chloromethane
Concen: 8.869 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion: 50 Resp: 639964
Ion Ratio Lower Upper
50 100
52 32.4 25.8 38.8





#5

Vinyl Chloride

Concen: 8.938 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleID :

VL0506ABS01

Tot Ion: 62 Resp: 626998

Ion Ratio Lower Upper

62 100

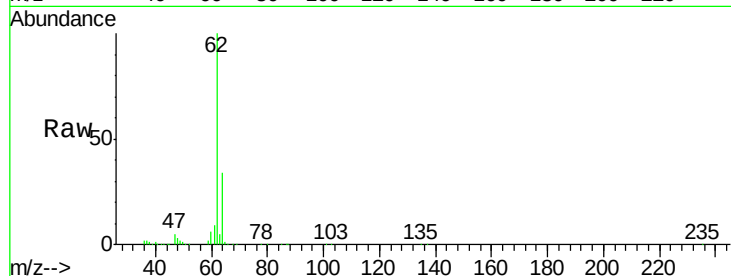
64 34.2 25.6 38.4

Manual Integrations

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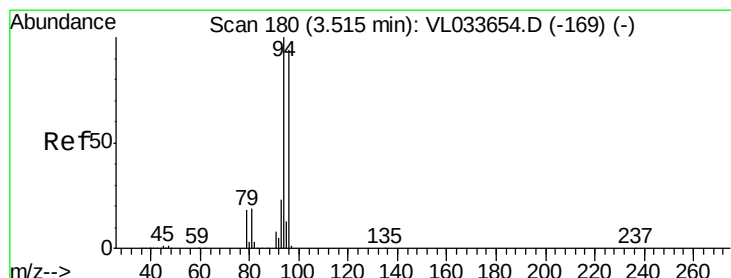
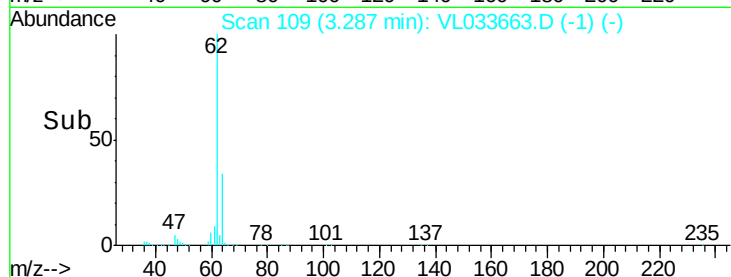
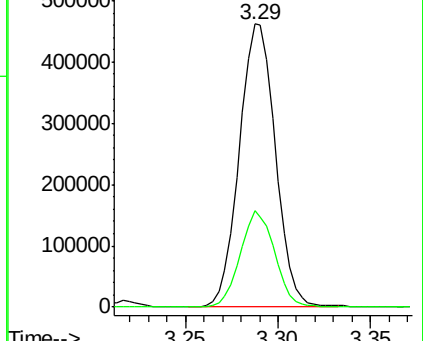
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.842 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033663.D

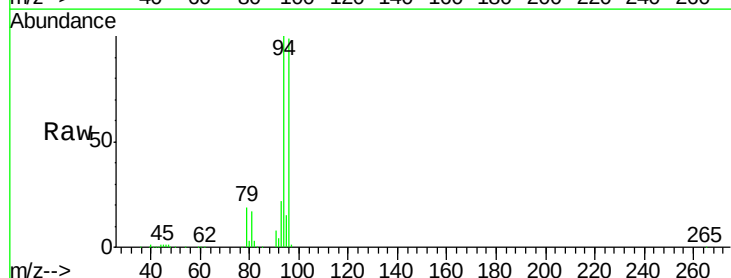
Acq: 6 May 2019 17:51

Tgt Ion: 94 Resp: 394035

Ion Ratio Lower Upper

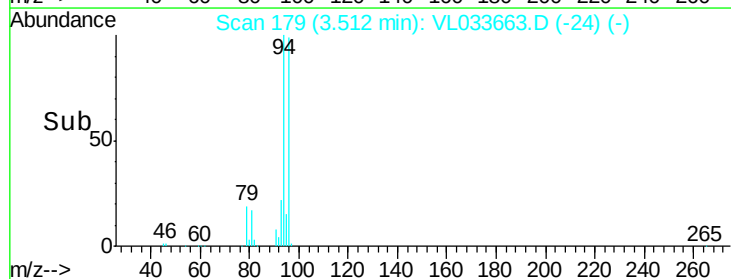
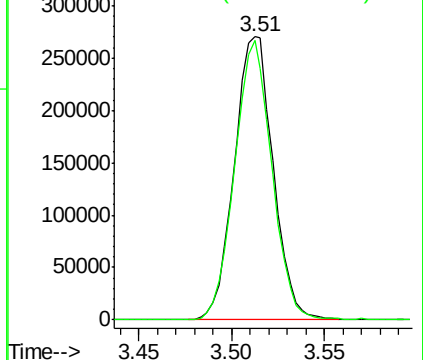
94 100

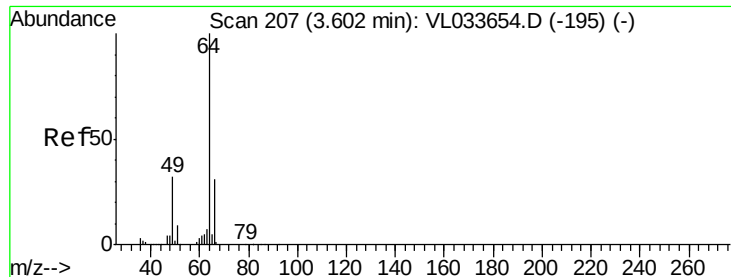
96 98.6 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.091 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

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ClientSampleId :

VL0506ABS01

Tot Ion: 64 Resp: 231518

Ion Ratio Lower Upper

64 100

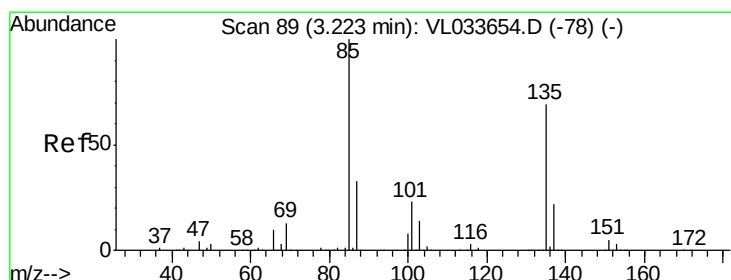
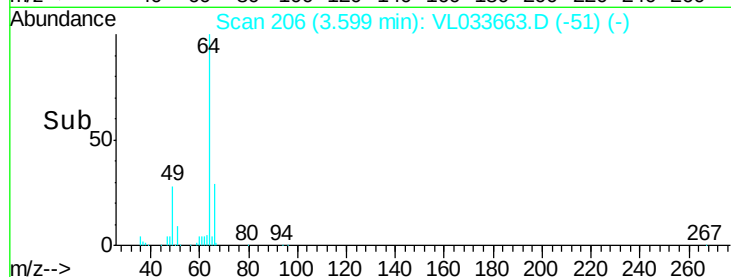
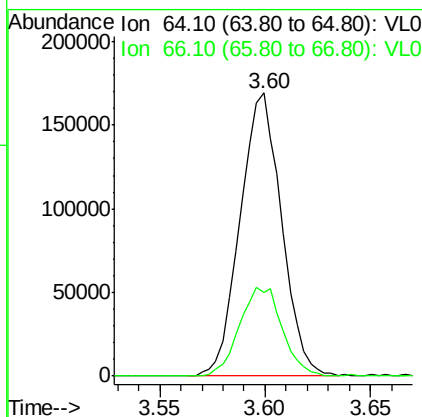
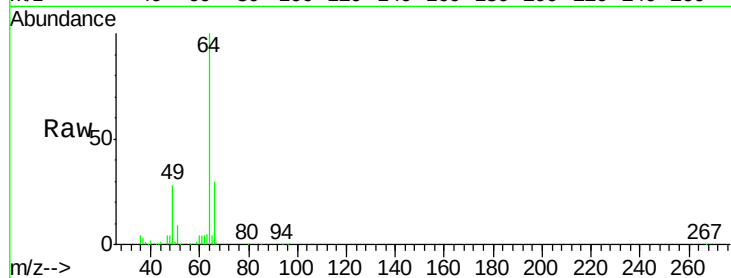
66 29.6 25.1 37.7

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.825 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033663.D

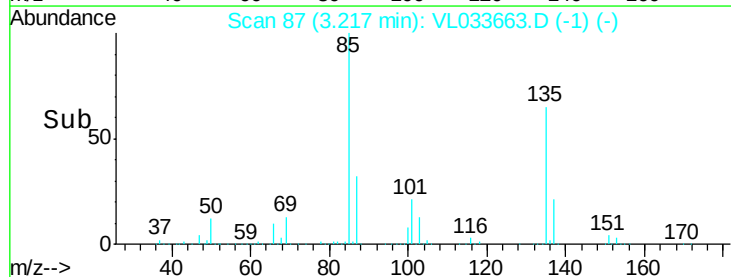
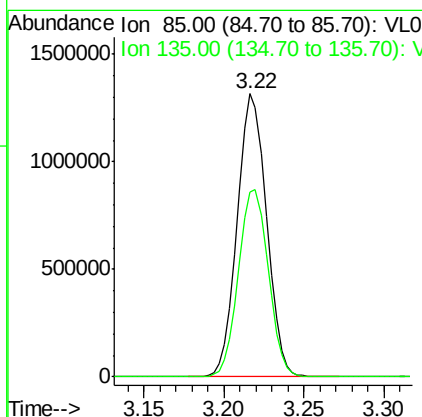
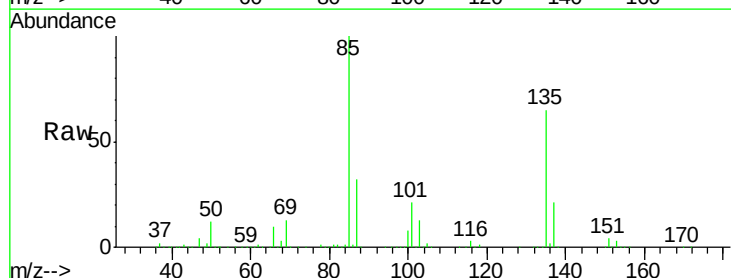
Acq: 6 May 2019 17:51

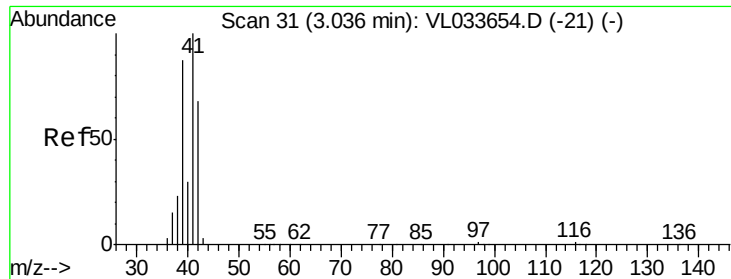
Tgt Ion: 85 Resp: 1637306

Ion Ratio Lower Upper

85 100

135 67.6 54.3 81.5





#9

Propene

Concen: 9.276 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion: 41 Resp: 490796

Ion Ratio Lower Upper

41 100

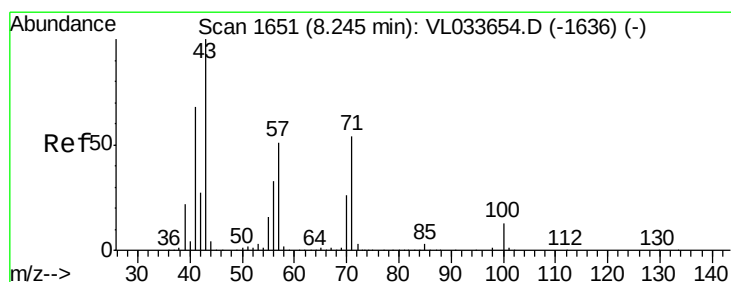
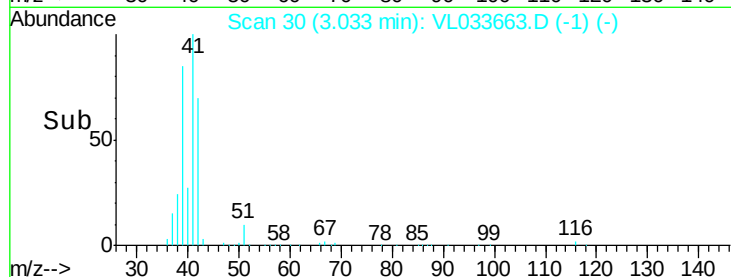
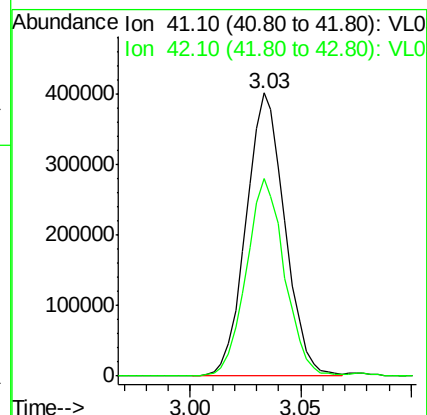
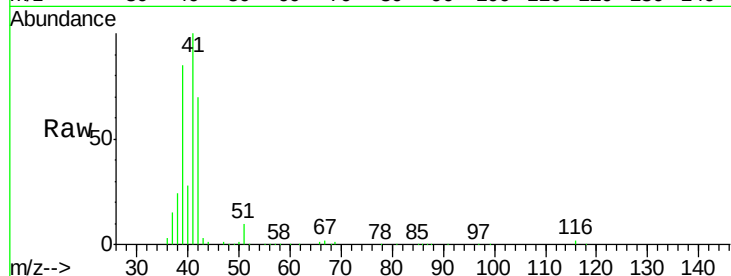
42 69.9 55.6 83.4

Manual Integrations

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#10

Heptane

Concen: 10.524 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033663.D

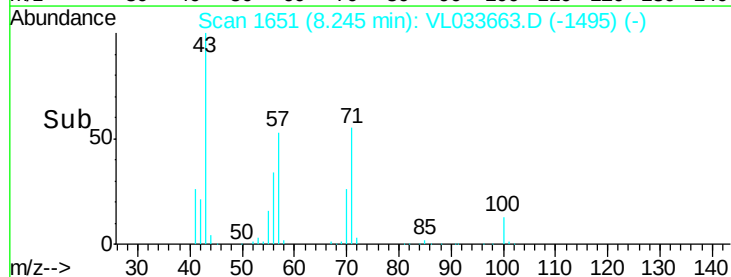
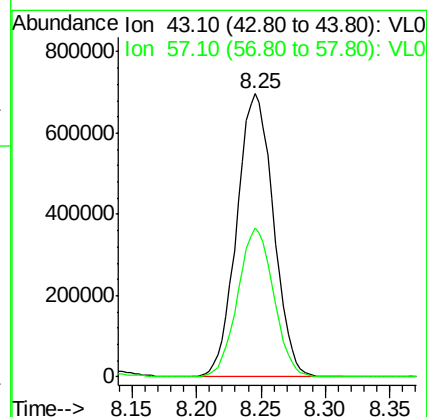
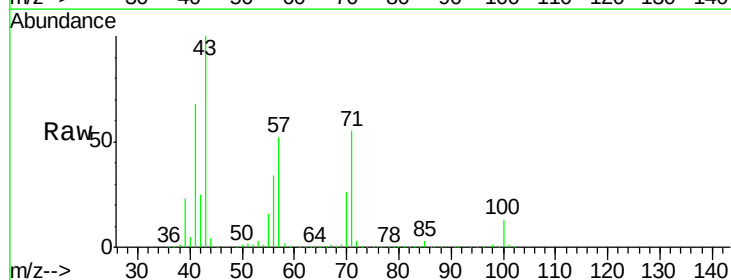
Acq: 6 May 2019 17:51

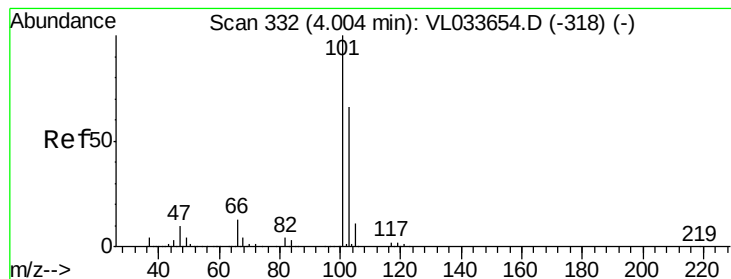
Tgt Ion: 43 Resp: 1374198

Ion Ratio Lower Upper

43 100

57 51.3 41.8 62.6





#11

Trichlorofluoromethane

Concen: 9.065 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampled :

VL0506ABS01

Tot Ion:101 Resp: 1907979

Ion Ratio Lower Upper

101 100

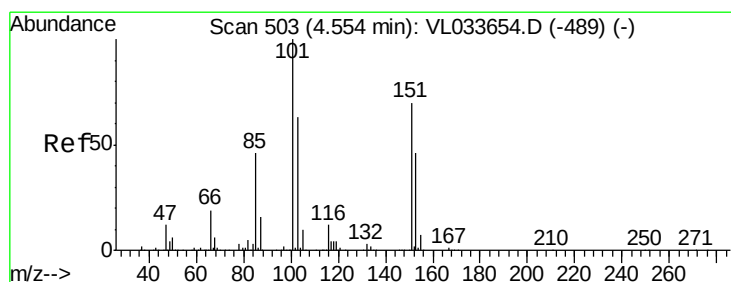
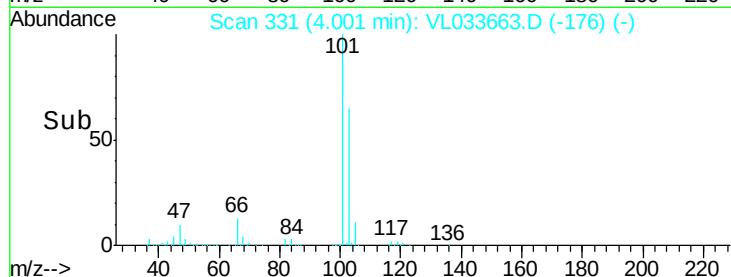
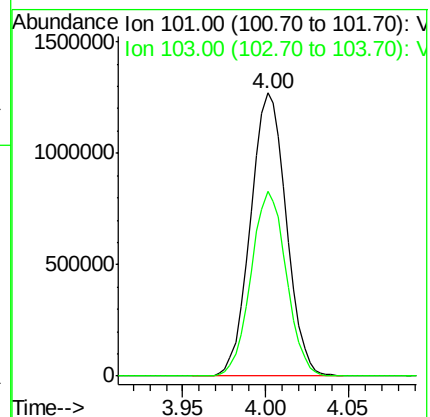
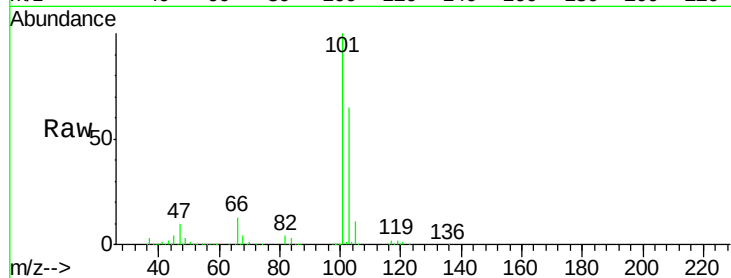
103 65.3 52.7 79.1

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.281 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033663.D

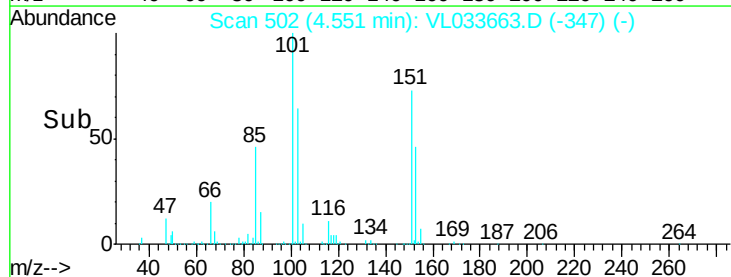
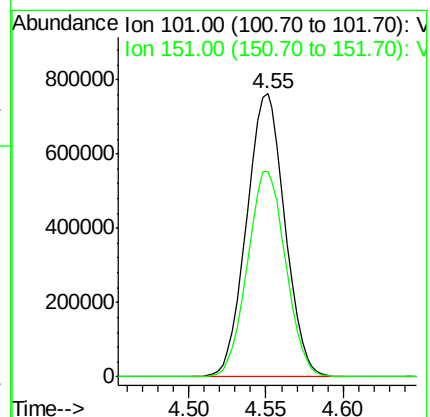
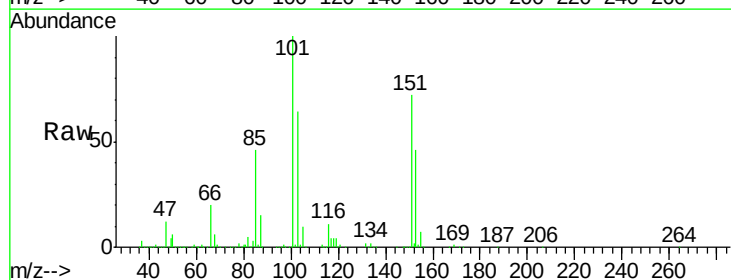
Acq: 6 May 2019 17:51

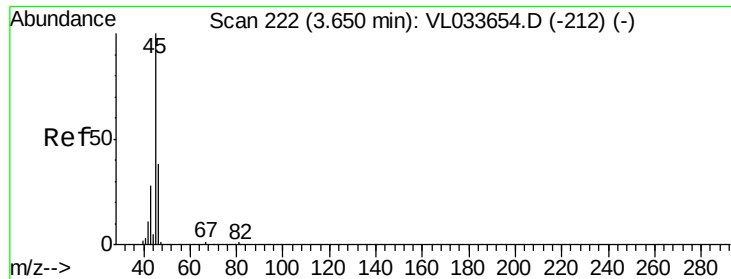
Tgt Ion:101 Resp: 1313251

Ion Ratio Lower Upper

101 100

151 72.8 58.0 87.0





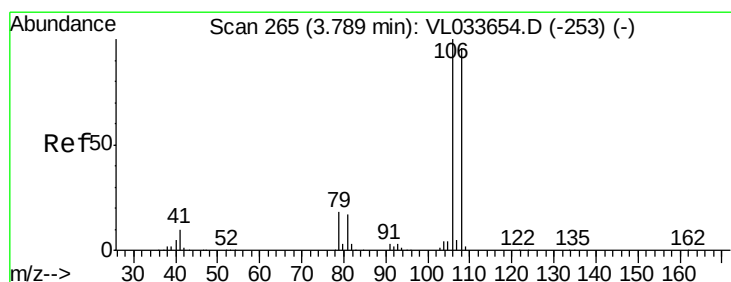
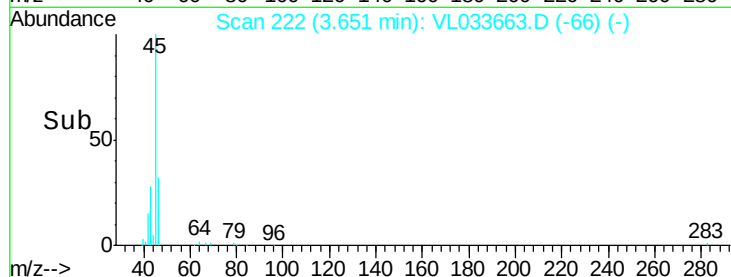
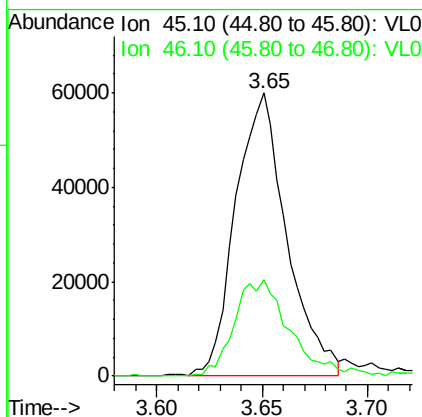
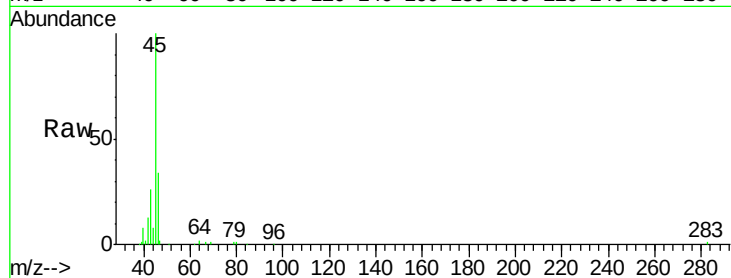
#13
Ethanol
Concen: 6.292 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion	45	Resp	99924
Ion Ratio	100	Lower	Upper
46	37.4	14.9	59.7

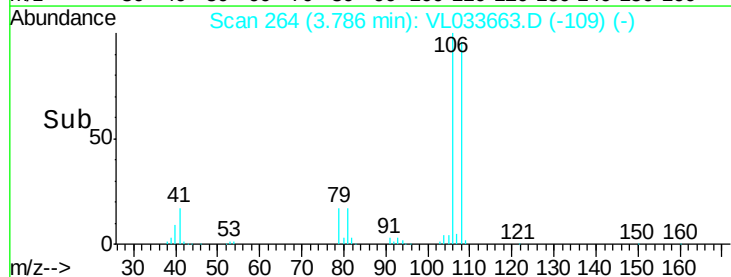
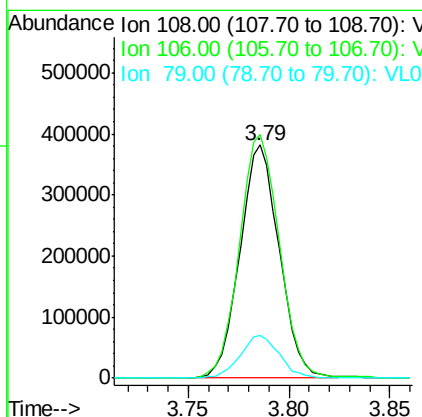
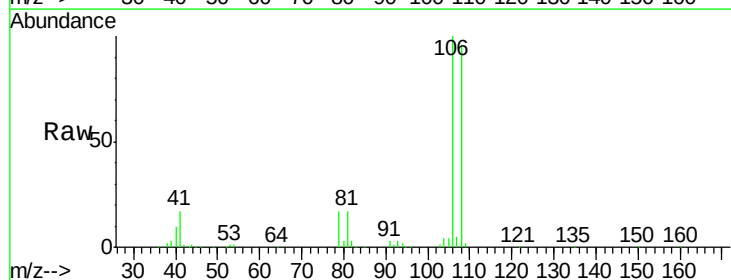
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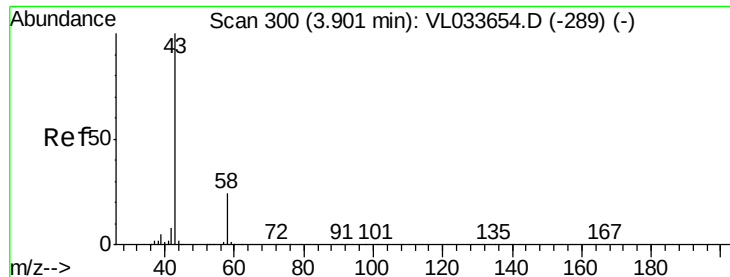
MMDadoda
5/8/2019 12:06:41 PM



#14
Bromoethene
Concen: 9.348 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion	108	Resp	521377
Ion Ratio	100	Lower	Upper
106	107.1	85.7	128.5
79	18.6	15.2	22.8





#15

Acetone

Concen: 8.306 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion: 43 Resp: 1187523

Ion Ratio Lower Upper

43 100

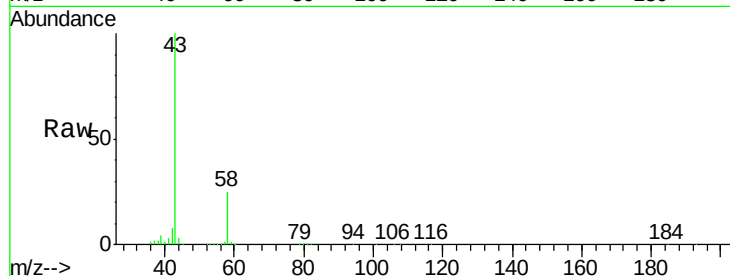
58 25.8 20.9 31.3

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

600000

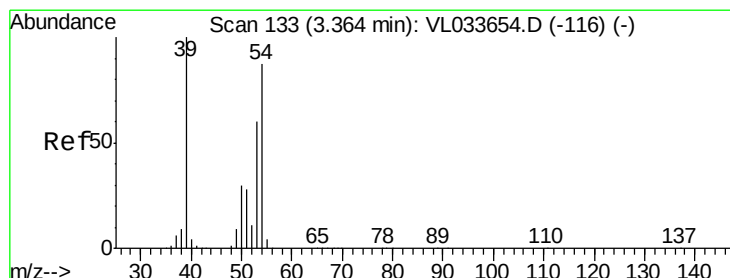
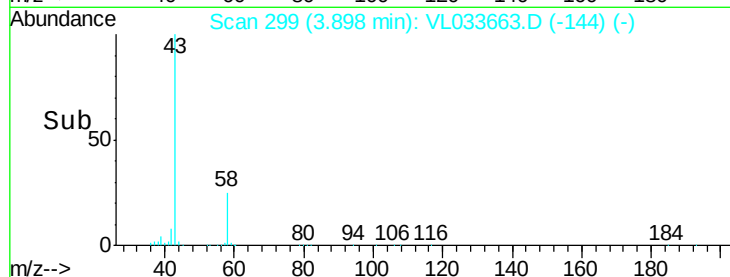
400000

200000

0

3.85 3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 9.163 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033663.D

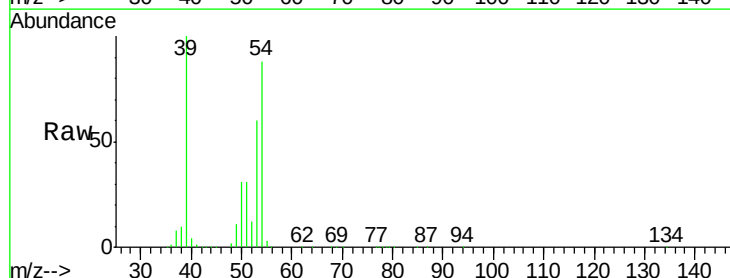
Acq: 6 May 2019 17:51

Tgt Ion: 39 Resp: 561871

Ion Ratio Lower Upper

39 100

54 85.1 67.0 100.4



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

400000

300000

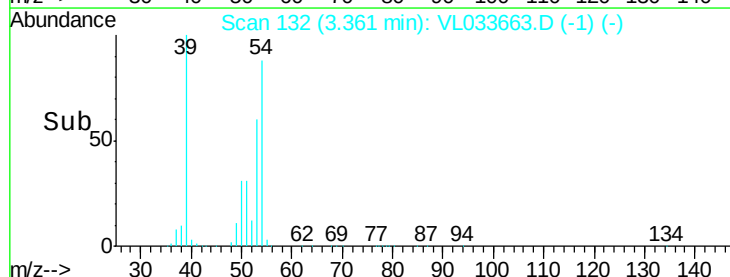
200000

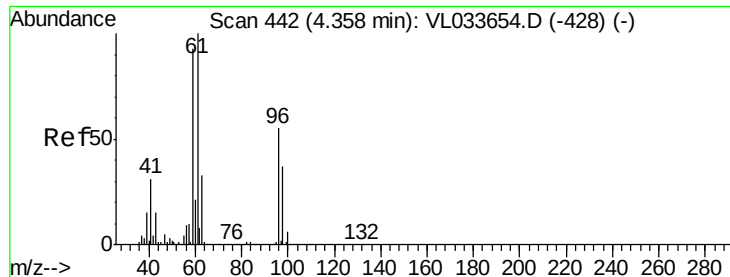
100000

0

3.30 3.35 3.40

Time-->





#17

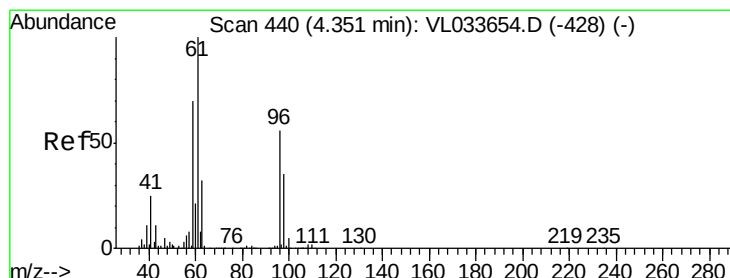
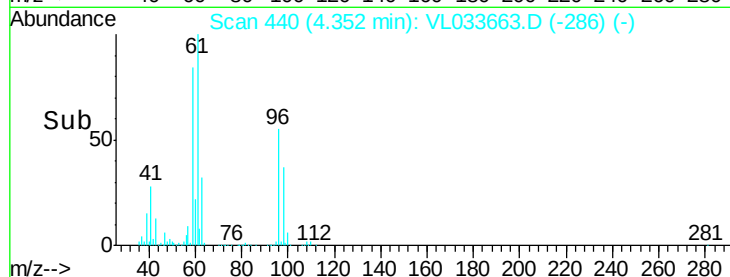
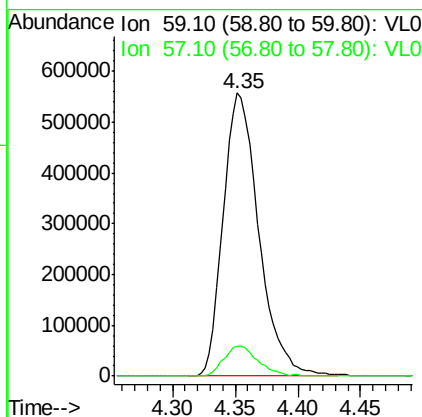
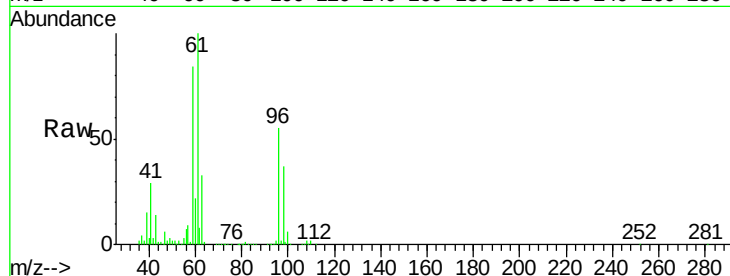
tert-Butyl alcohol
Concen: 10.102 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.01 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion: 59 Resp: 1097003
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

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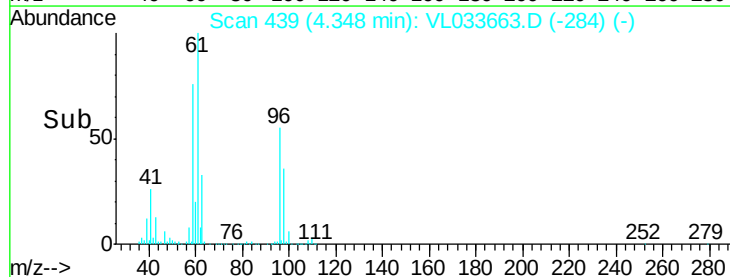
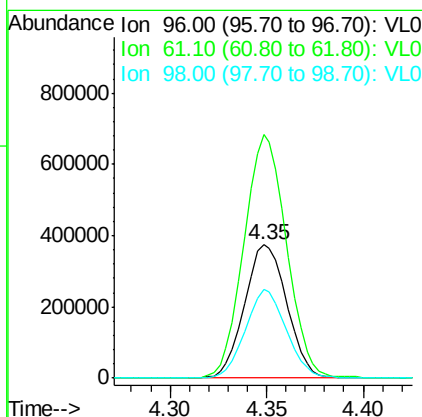
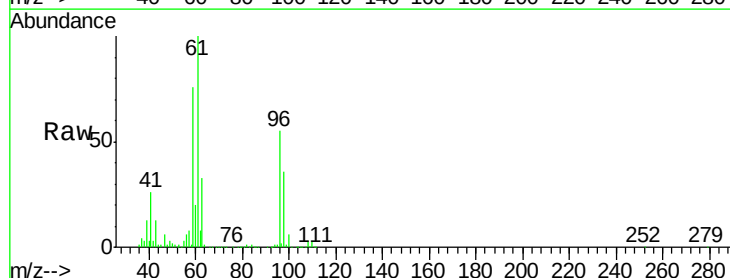
MMDadoda
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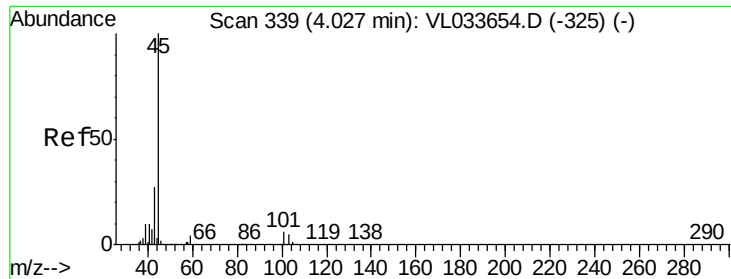


#18

1,1-Dichloroethene
Concen: 9.331 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion: 96 Resp: 569997
Ion Ratio Lower Upper
96 100
61 182.7 143.4 215.0
98 66.5 50.4 75.6





#19

Isopropyl Alcohol

Concen: 9.094 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.01 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion: 45 Resp: 798798

Ion Ratio Lower Upper

45 100

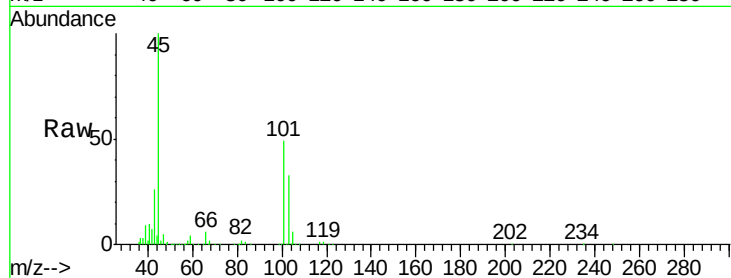
58 2.6 2.0 3.0

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

500000

400000

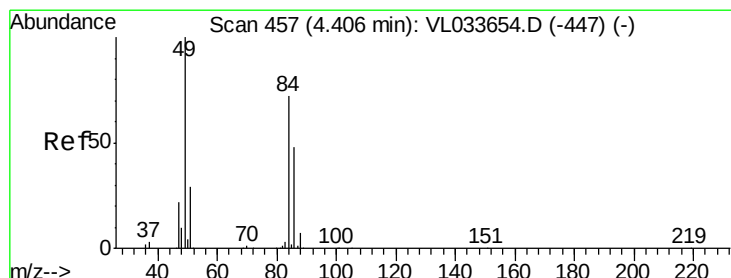
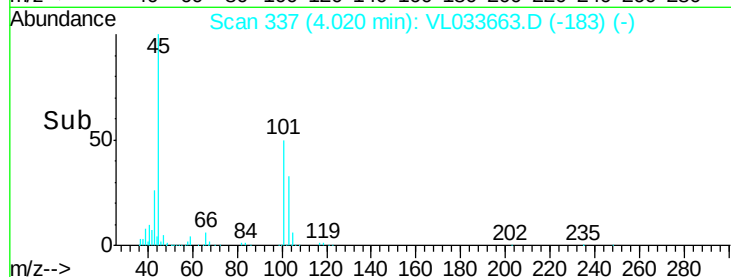
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.114 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Tgt Ion: 84 Resp: 494791

Ion Ratio Lower Upper

84 100

49 143.8 111.8 167.6

51 41.8 32.3 48.5

86 65.1 53.9 80.9

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

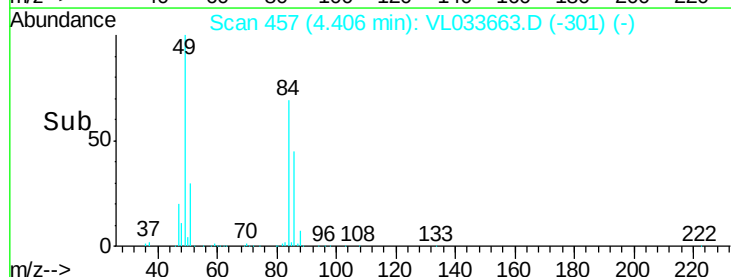
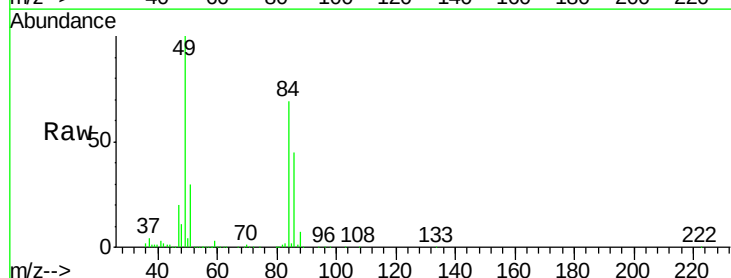
600000

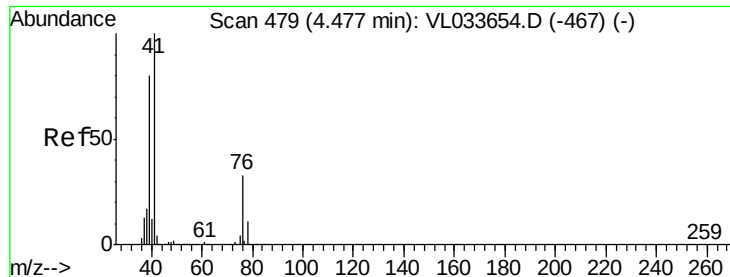
400000

200000

0

Time-->





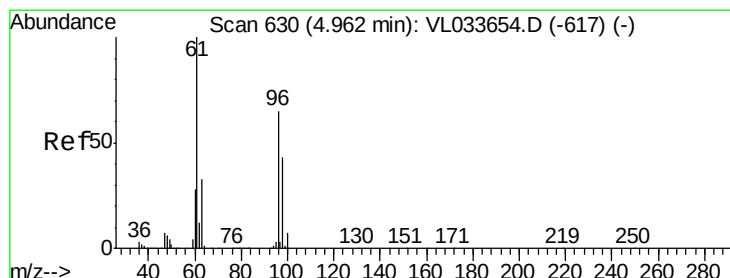
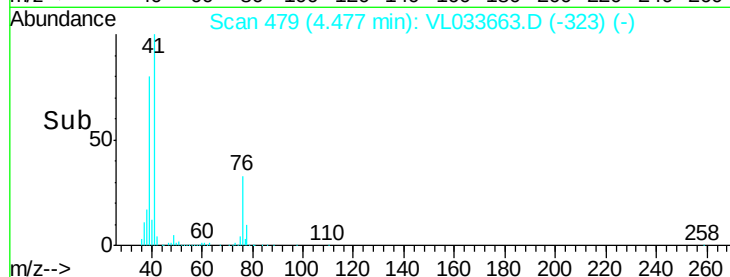
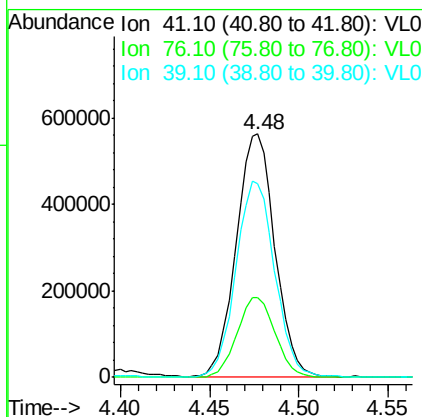
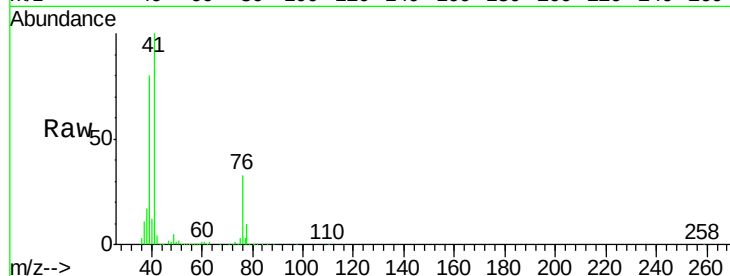
#21
Allvl Chloride
Concen: 9.815 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.6	26.0	39.0
39	81.5	64.4	96.6

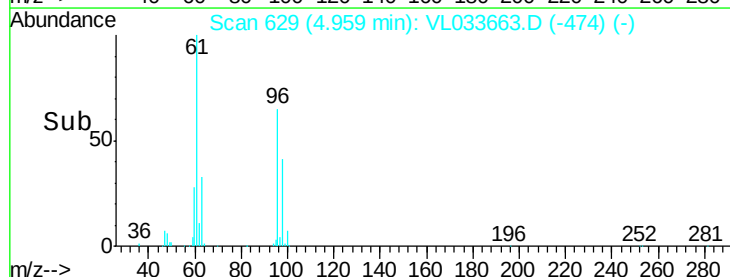
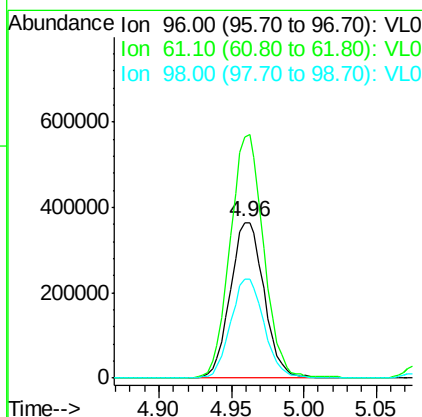
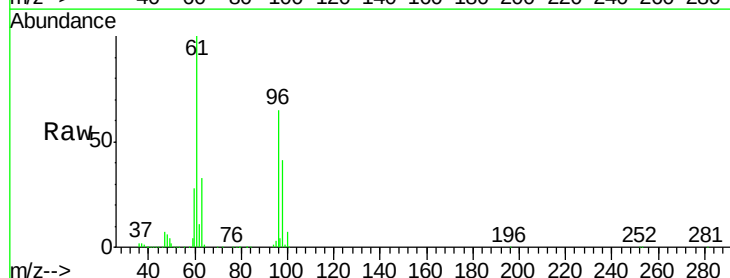
Manual Integrations
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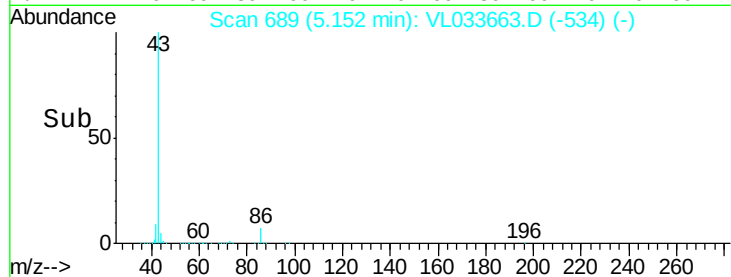
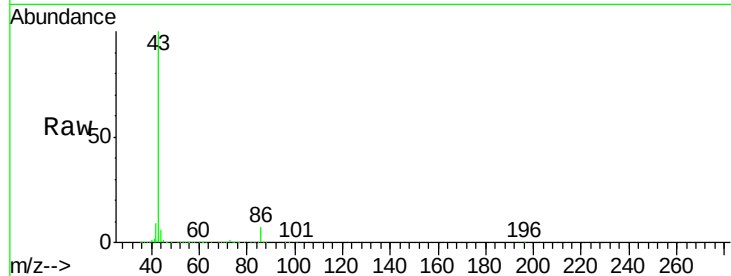
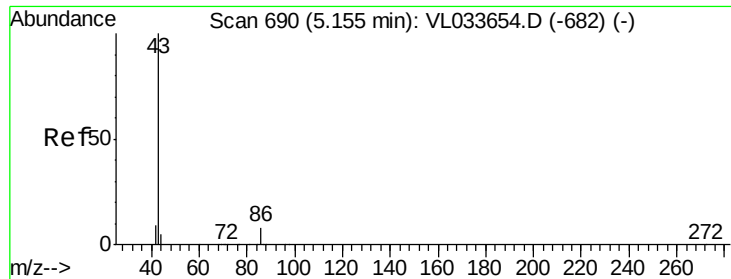
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.626 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.5	123.1	184.7
98	63.9	52.6	79.0





#23

Vinyl Acetate

Concen: 10.159 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Tot Ion: 43 Resp: 1887295

Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.0	9.0
42	9.4	8.0	12.0
44	5.6	3.9	5.9

Instrument :

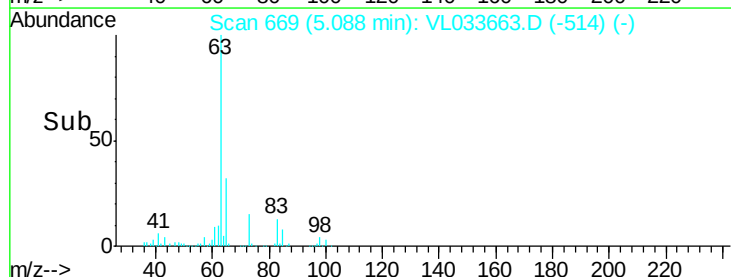
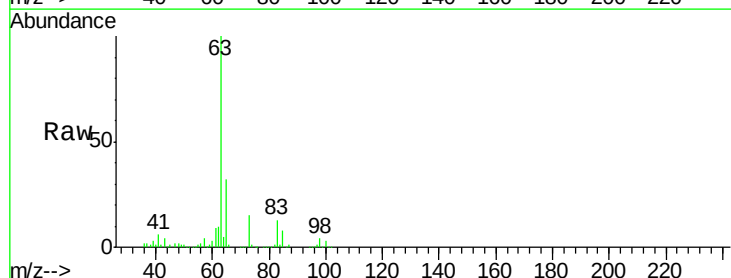
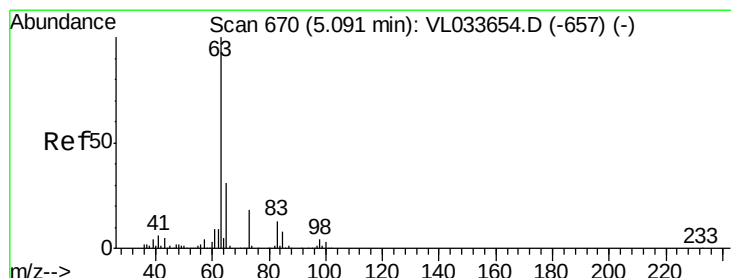
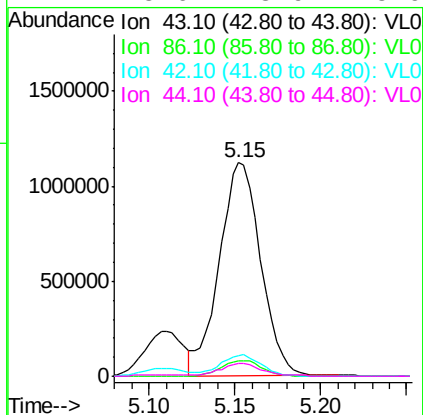
MSVOA_L

ClientSampleId :

VL0506ABS01

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#24

1,1-Dichloroethane

Concen: 9.208 ppbv

RT: 5.09 min Scan# 669

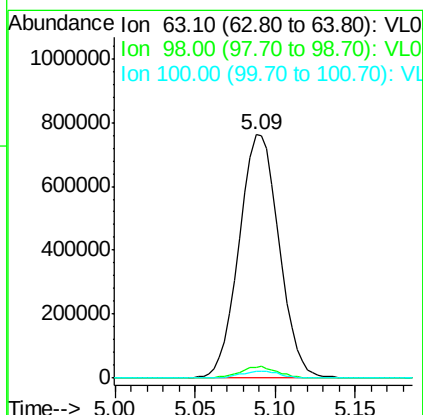
Delta R.T. -0.00 min

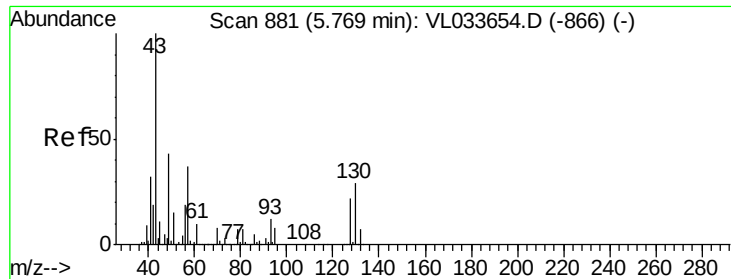
Lab File: VL033663.D

Acq: 6 May 2019 17:51

Tgt Ion: 63 Resp: 1294110

Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.1	6.2
100	2.6	1.5	4.4





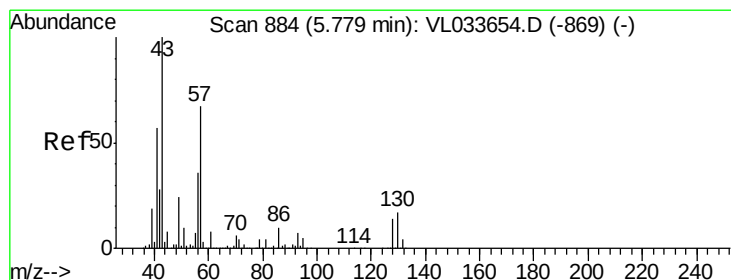
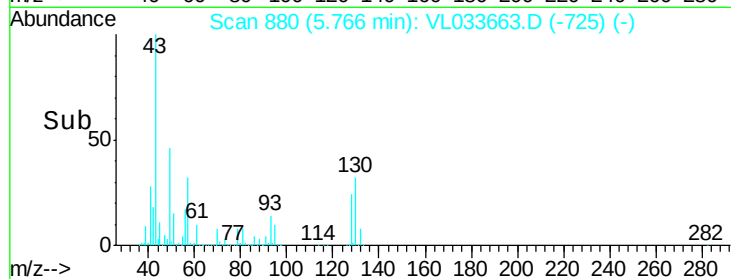
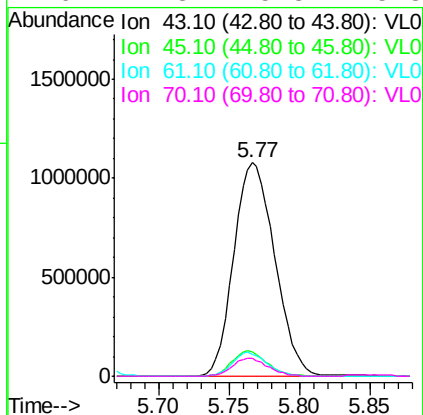
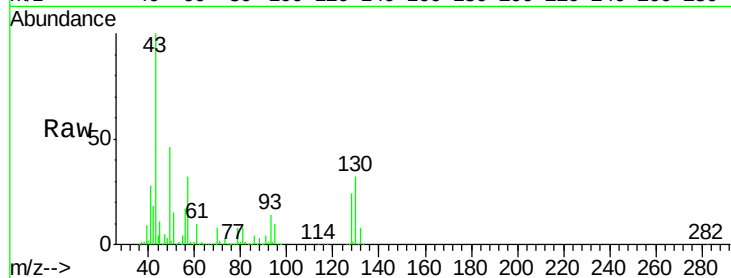
#25
Ethyl Acetate
Concen: 9.431 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion	43	Resp	2193835
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.0	12.0
61	9.6	7.5	11.3
70	7.3	5.8	8.8

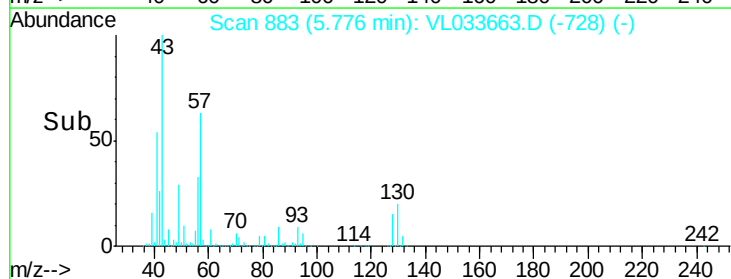
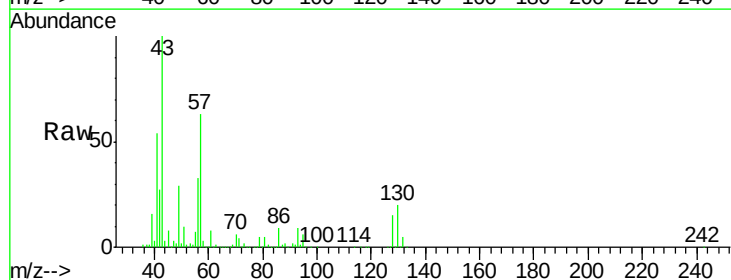
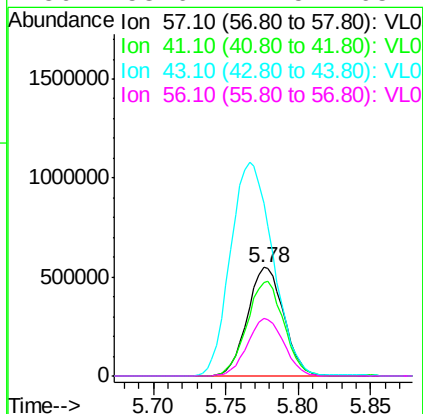
Manual Integrations
APPROVED

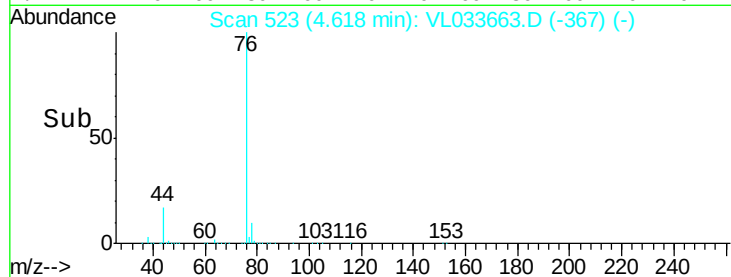
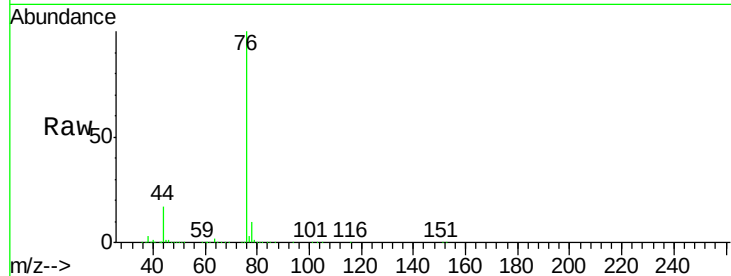
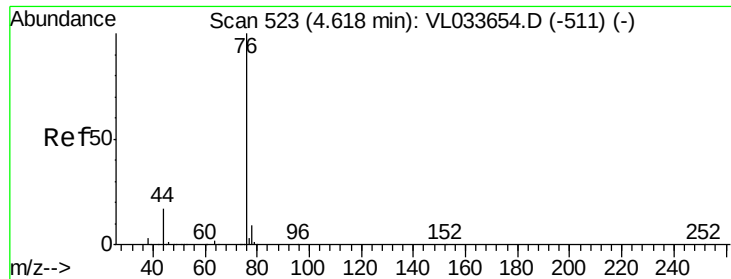
MMDadoda
5/8/2019 12:06:41 PM



#26
Hexane
Concen: 9.574 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion	57	Resp	957309
Ion	Ratio	Lower	Upper
57	100		
41	88.2	69.7	104.5
43	230.4	181.9	272.9
56	53.6	42.5	63.7





#27

Carbon Disulfide

Concen: 10.619 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Tot Ion: 76 Resp: 1452259

Ion Ratio Lower Upper

76 100

44 17.3 14.4 21.6

78 9.2 7.4 11.2

Instrument :

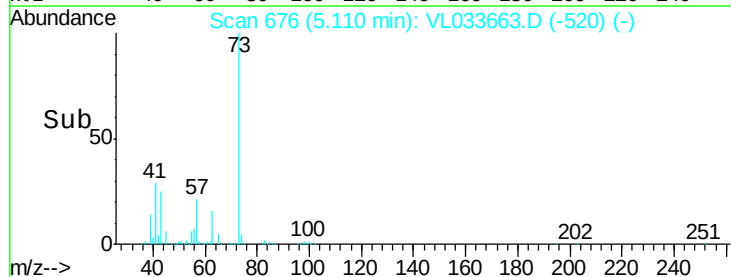
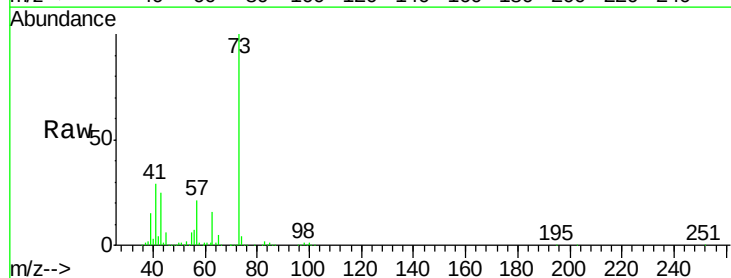
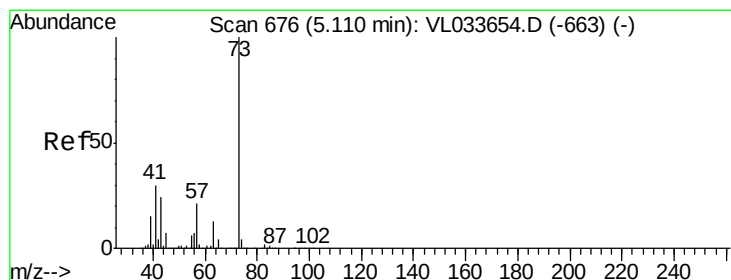
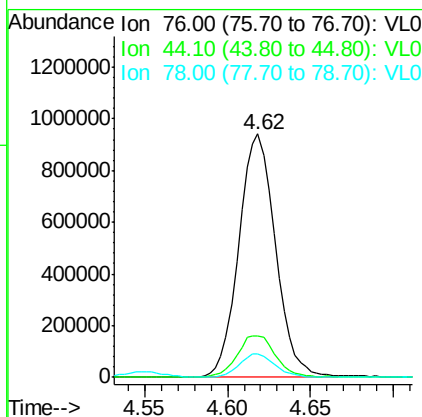
MSVOA_L

ClientSampleId :

VL0506ABS01

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#28

Methyl tert-Butyl Ether

Concen: 9.877 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033663.D

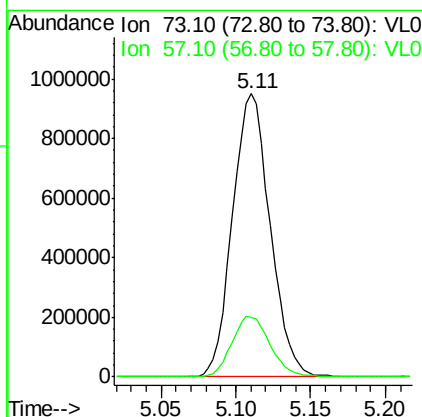
Acq: 6 May 2019 17:51

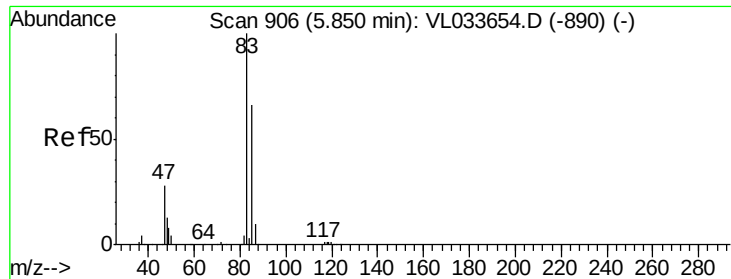
Tgt Ion: 73 Resp: 1663297

Ion Ratio Lower Upper

73 100

57 21.8 17.4 26.0





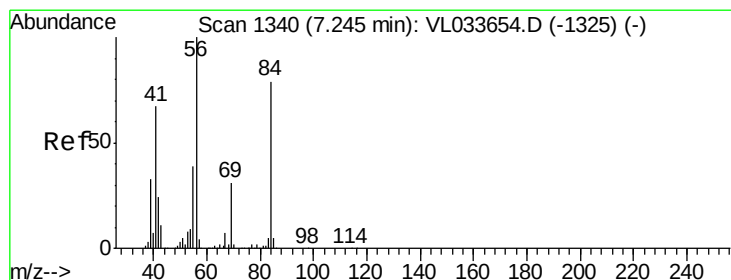
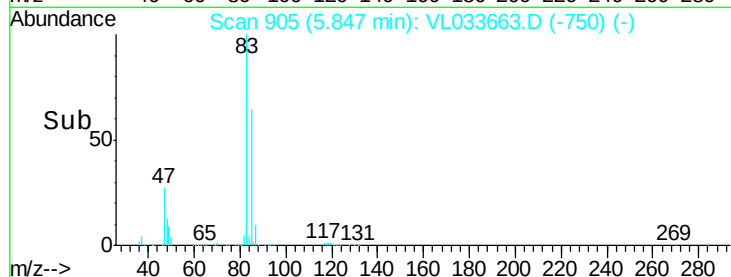
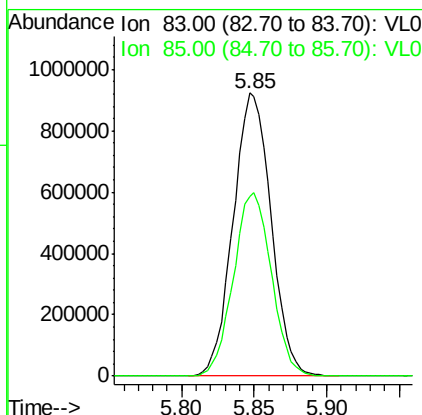
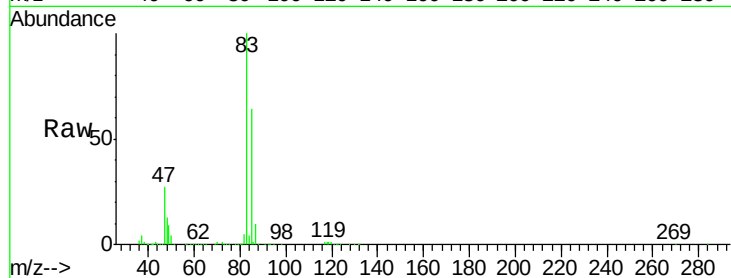
#29
Chloroform
Concen: 9.330 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampled :
VL0506ABS01

Tot Ion: 83 Resp: 1677362
Ion Ratio Lower Upper
83 100
85 63.6 52.6 78.8

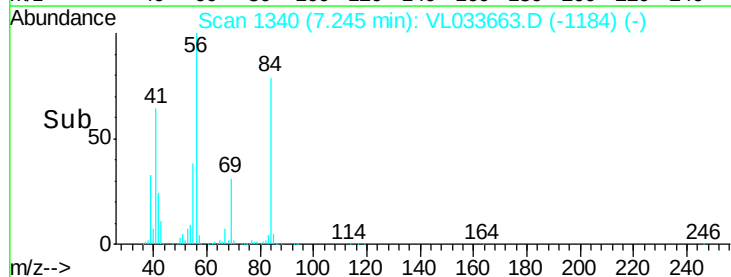
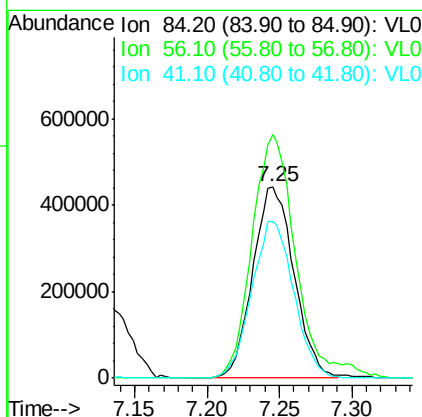
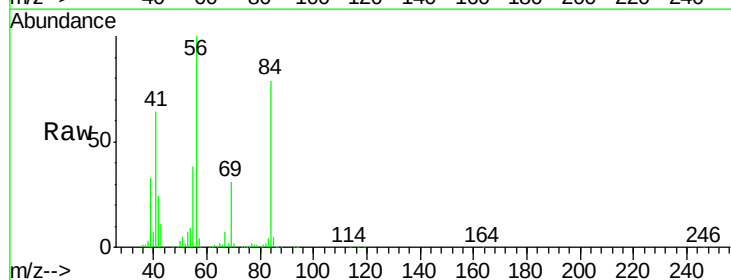
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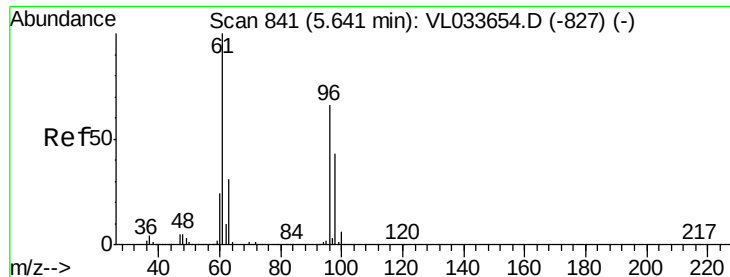
MMDadoda
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#30
Cyclohexane
Concen: 10.441 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion: 84 Resp: 876687
Ion Ratio Lower Upper
84 100
56 135.6 107.0 160.4
41 83.4 66.6 99.8





#31

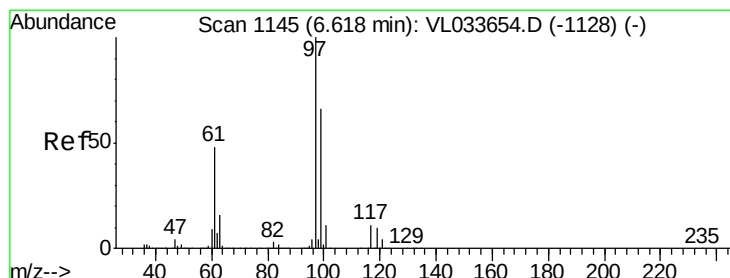
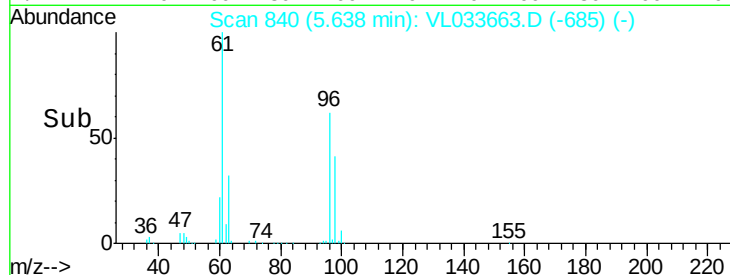
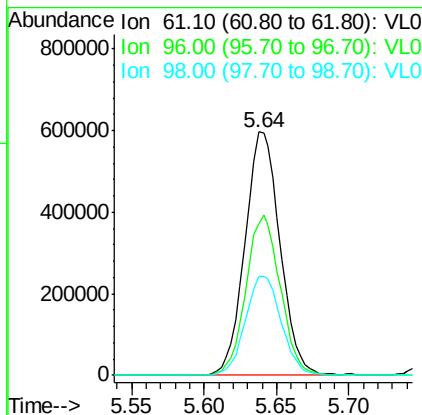
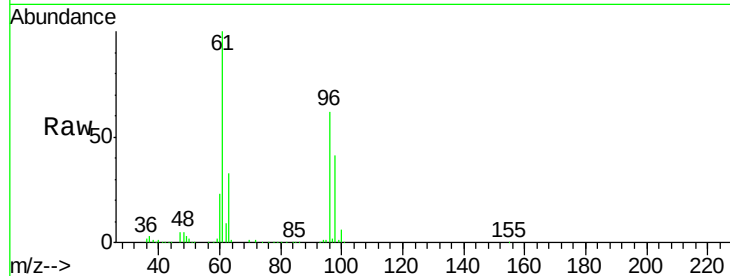
cis-1,2-Dichloroethene
Concen: 10.077 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.1	53.2	79.8
98	40.7	34.2	51.4

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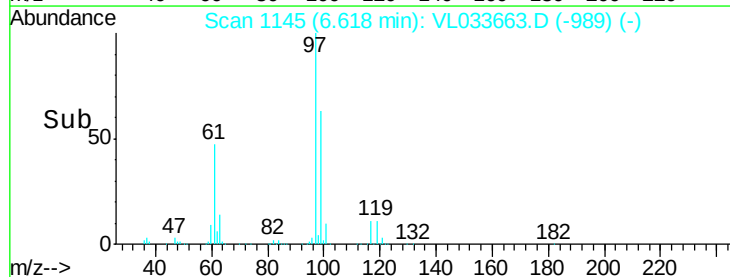
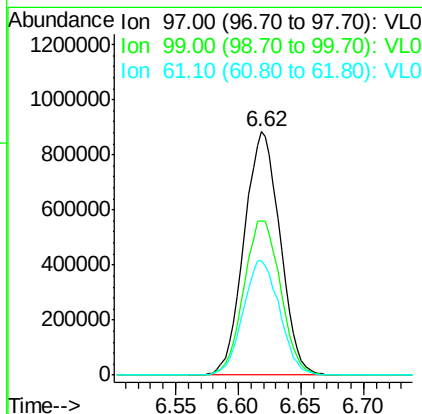
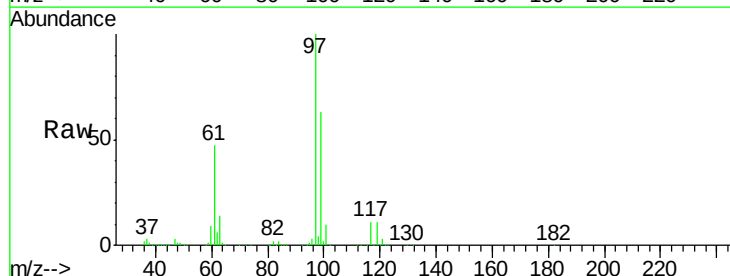
MMDadoda
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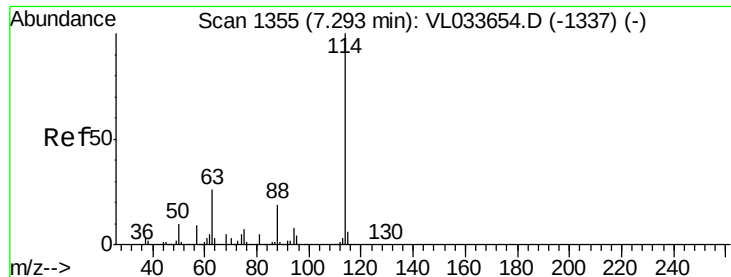


#32

1,1,1-Trichloroethane
Concen: 9.451 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.4	77.2
61	47.8	38.5	57.7





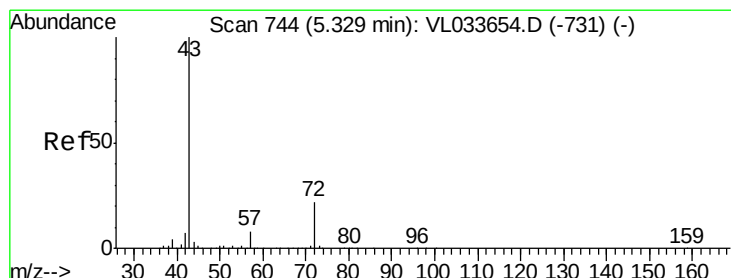
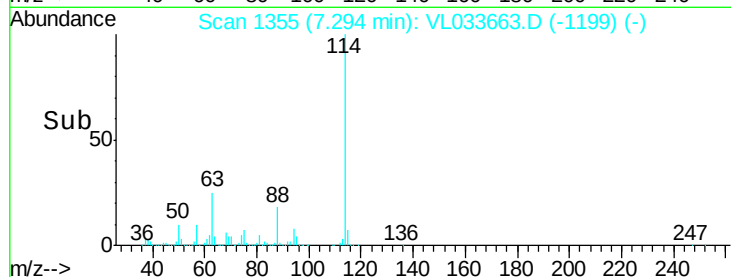
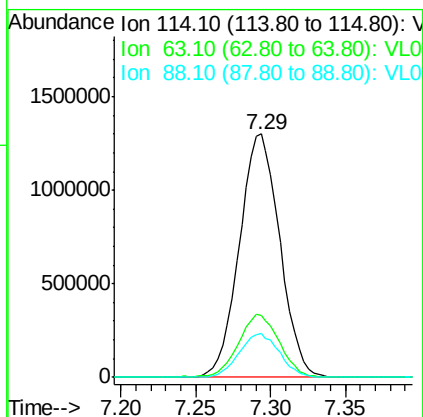
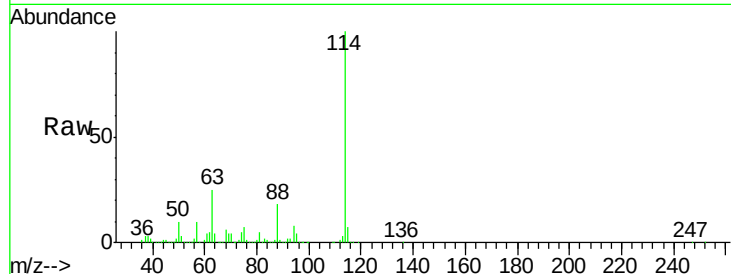
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.3	31.9
88	18.1	14.4	21.6

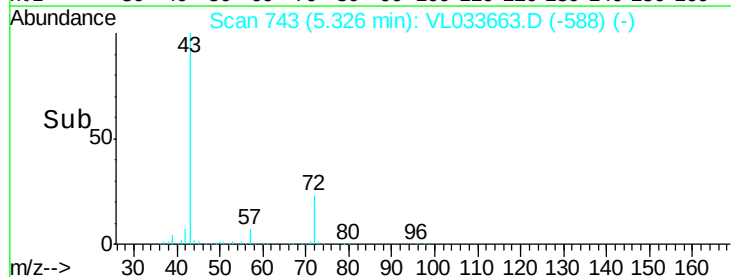
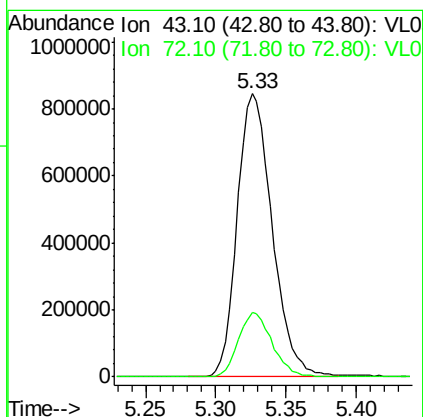
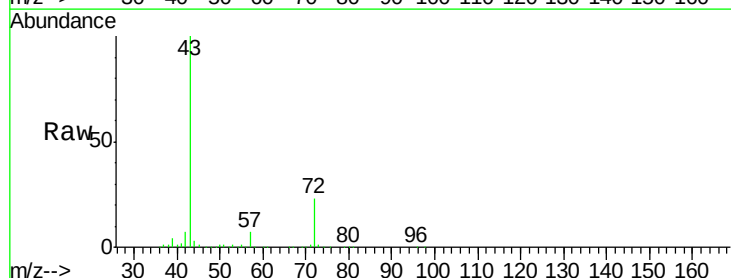
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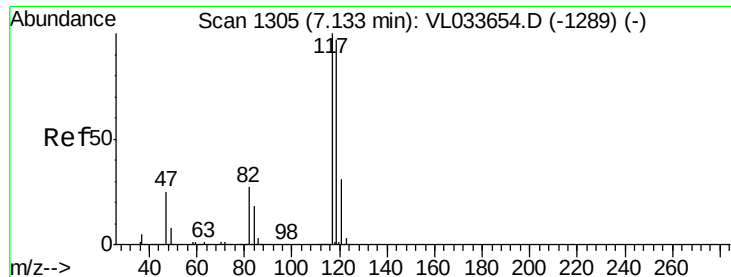
MMDadoda
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#34
 2-Butanone
 Concen: 9.418 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.5	26.3





#35

Carbon Tetrachloride

Concen: 9.742 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion:117 Resp: 1950412

Ion Ratio Lower Upper

117 100

119 97.6 77.9 116.9

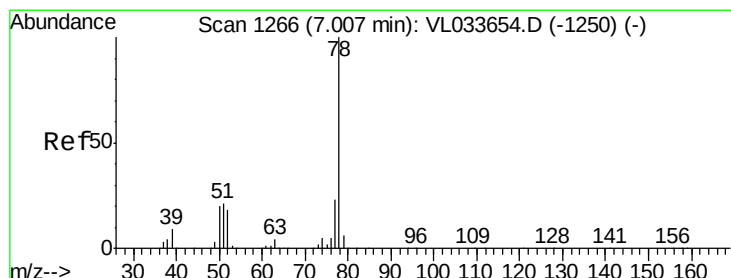
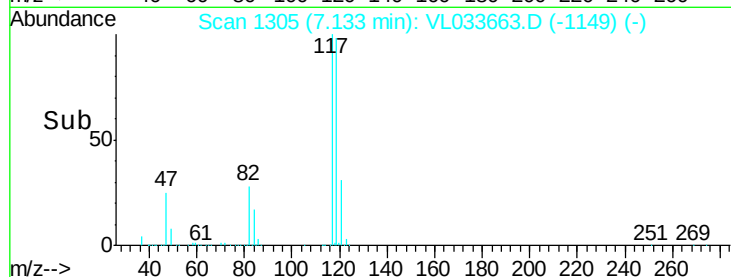
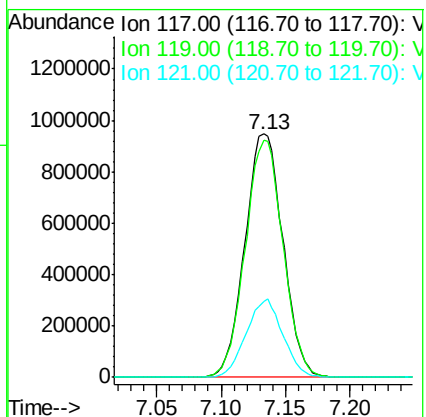
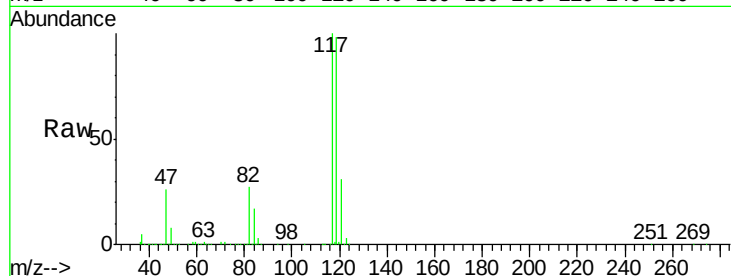
121 31.0 25.0 37.6

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#36

Benzene

Concen: 9.669 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

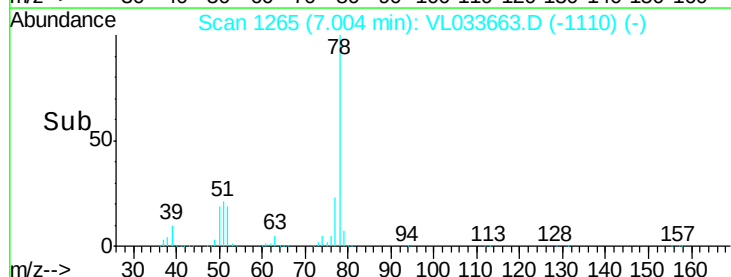
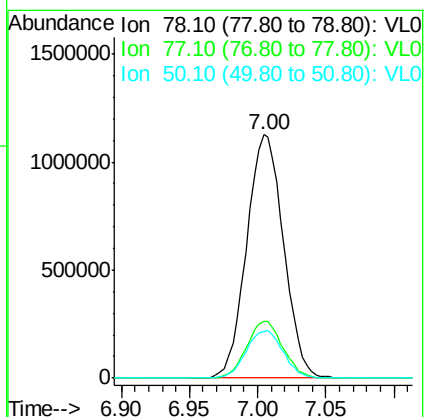
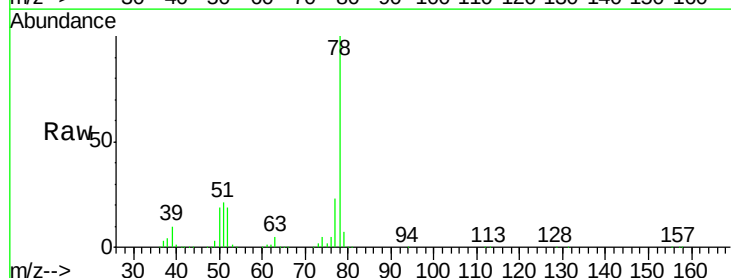
Tgt Ion: 78 Resp: 2112161

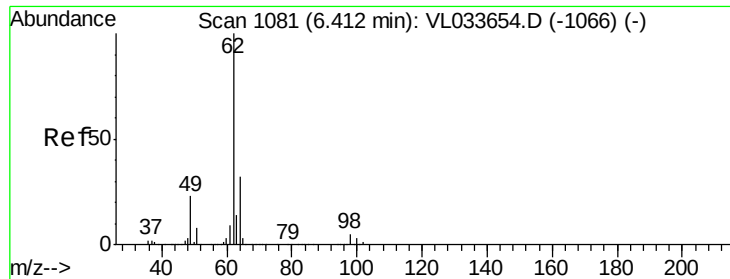
Ion Ratio Lower Upper

78 100

77 23.5 18.2 27.2

50 19.2 15.8 23.6





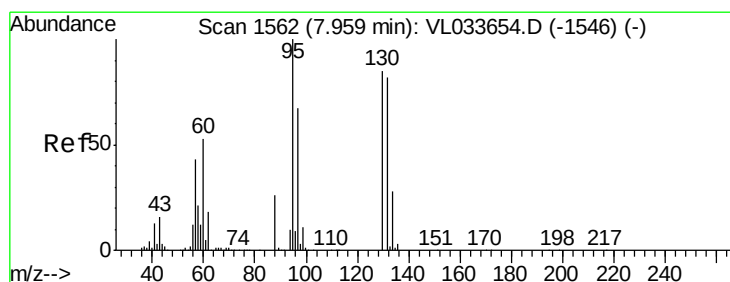
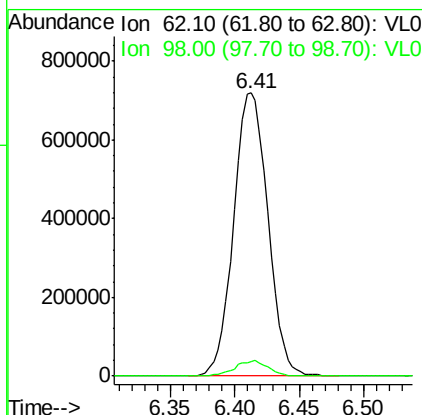
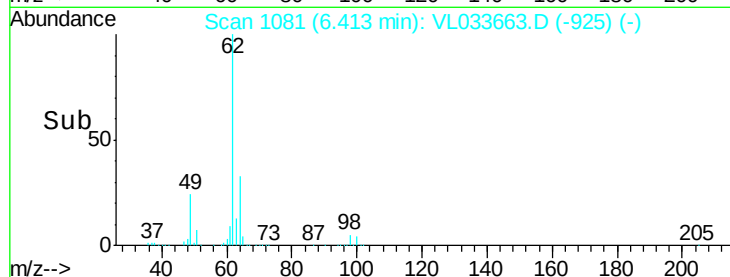
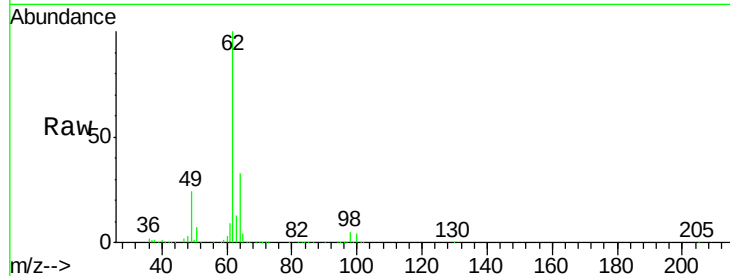
#37
 1,2-Dichloroethane
 Concen: 8.720 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. 0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABS01

Tot Ion: 62 Resp: 1329126
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.5 6.7

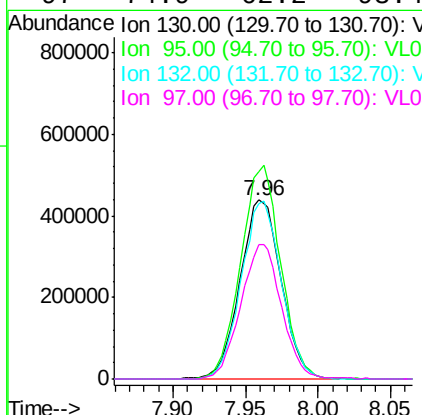
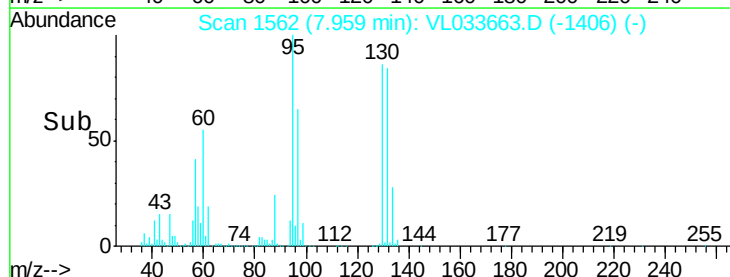
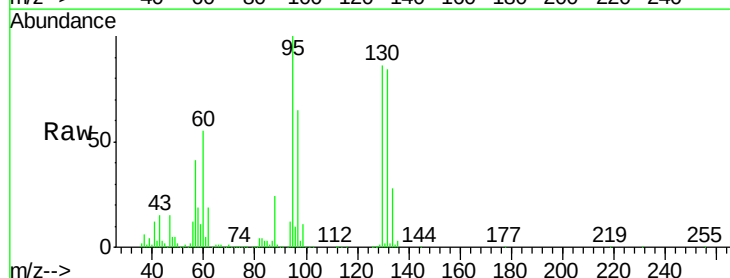
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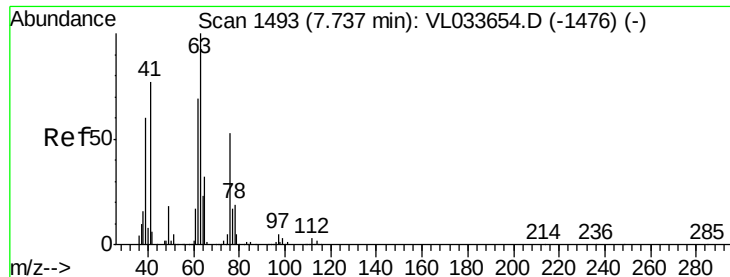
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#38
 Trichloroethene
 Concen: 10.833 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Tgt Ion:130 Resp: 868065
 Ion Ratio Lower Upper
 130 100
 95 115.9 93.4 140.0
 132 97.4 76.2 114.4
 97 74.9 62.2 93.4





#39

1,2-Dichloropropane

Concen: 11.116 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

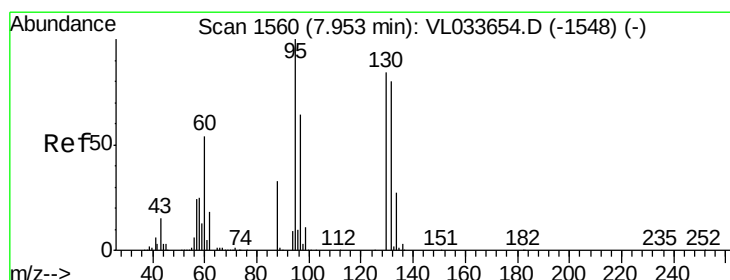
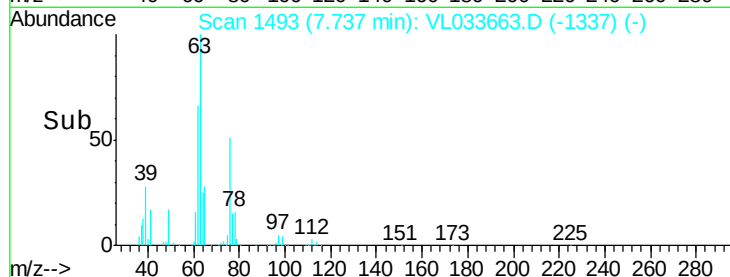
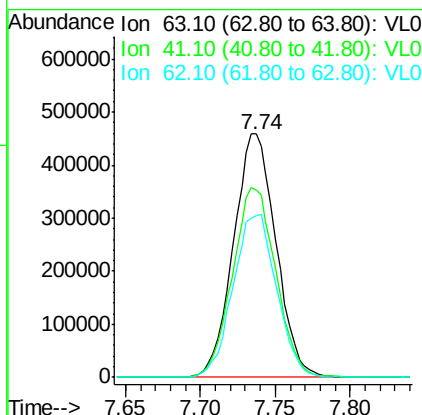
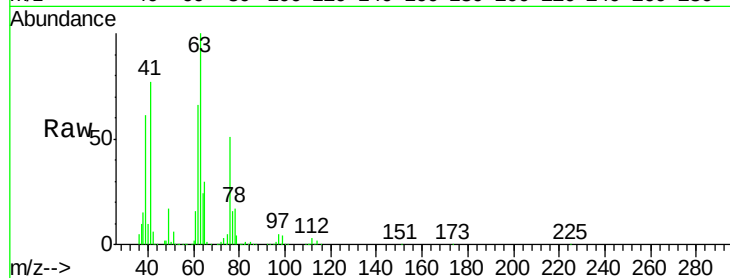
ClientSampleId :

VL0506ABS01

Tot Ion:	63	Resp:	904963
Ion Ratio		Lower	Upper
63	100		
41	76.8	61.6	92.4
62	66.1	55.0	82.6

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#40

1,4-Dioxane

Concen: 9.312 ppbv

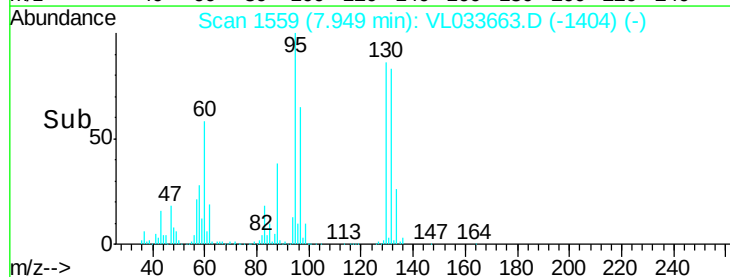
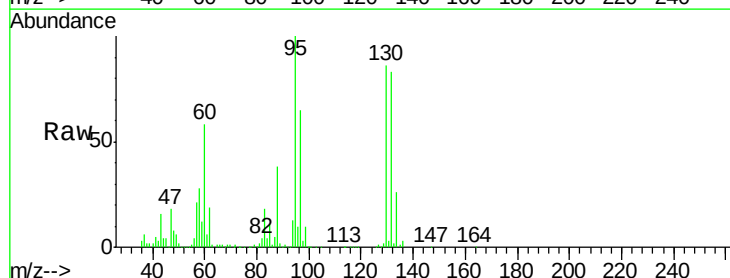
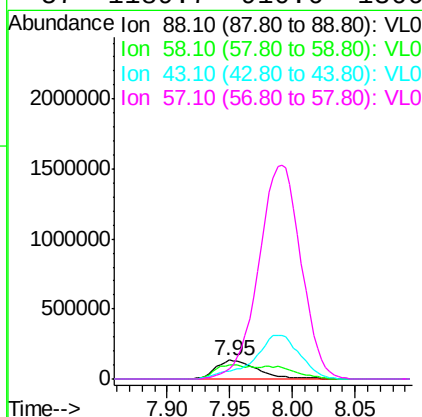
RT: 7.95 min Scan# 1559

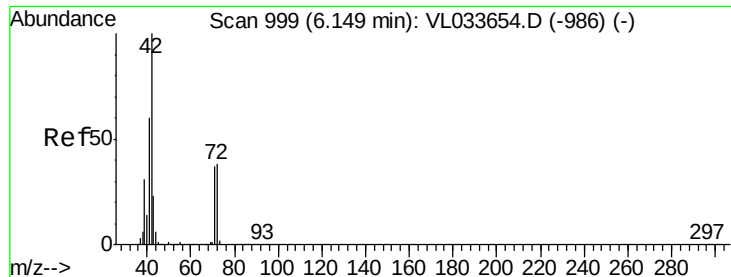
Delta R.T. -0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Tgt Ion:	88	Resp:	302987
Ion Ratio		Lower	Upper
88	100		
58	131.0	102.3	153.5
43	267.3	206.1	309.1
57	1189.7	910.6	1366.0





#41

Tetrahydrofuran

Concen: 10.346 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

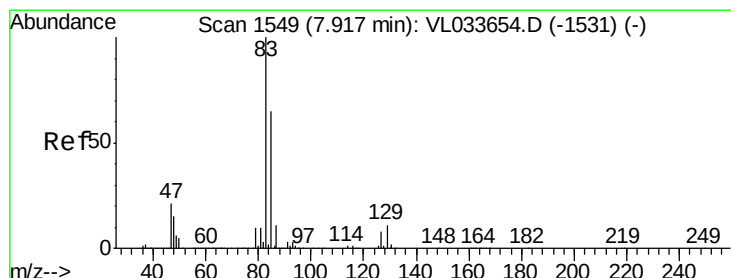
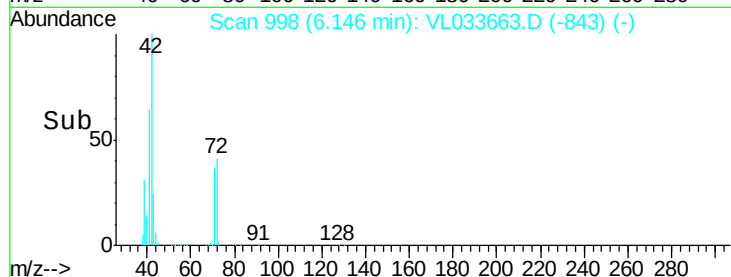
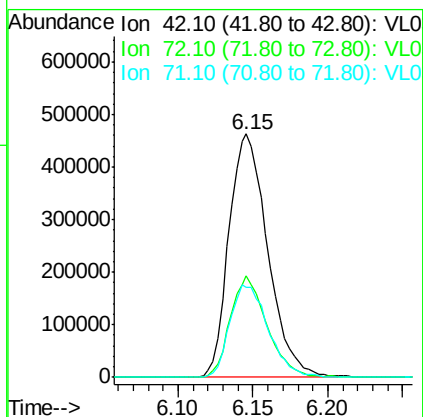
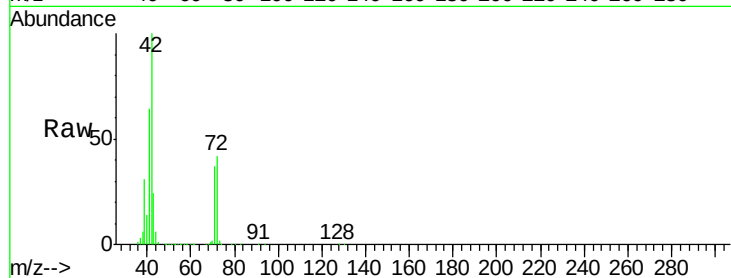
ClientSampleId :

VL0506ABS01

Tot Ion:	42	Resp:	834059
Ion	Ratio	Lower	Upper
42	100		
72	39.5	31.6	47.4
71	37.9	30.6	46.0

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.656 ppbv

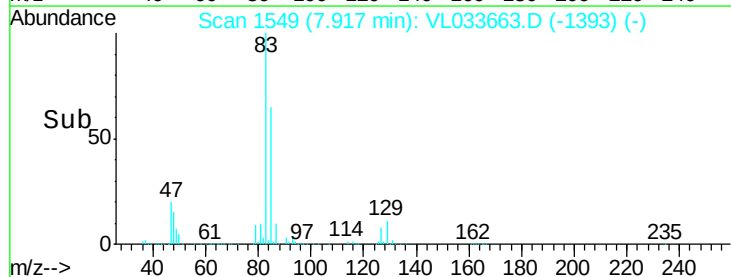
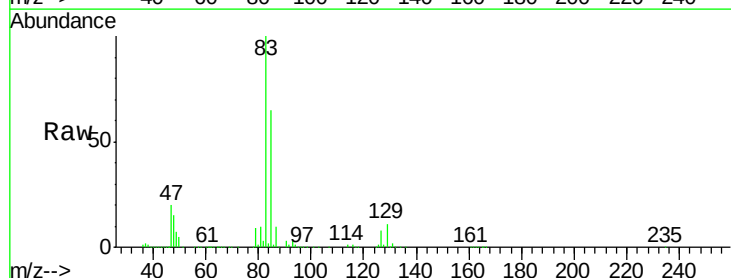
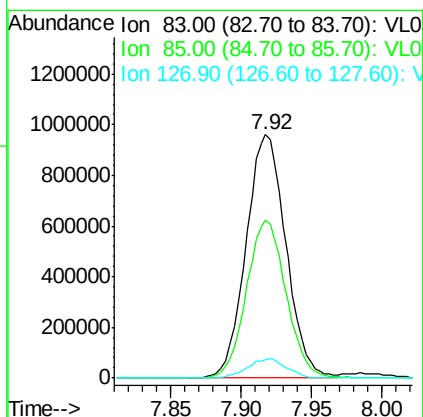
RT: 7.92 min Scan# 1549

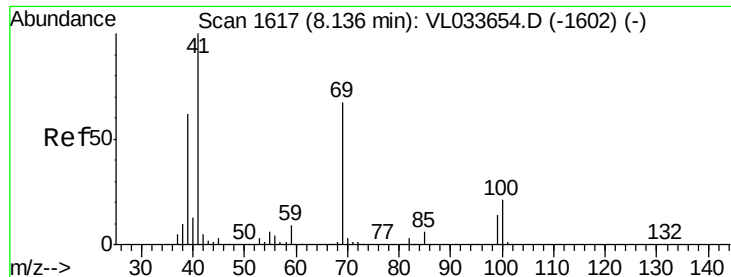
Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Tgt Ion:	83	Resp:	1900207
Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.4	78.6
127	7.7	6.6	9.8





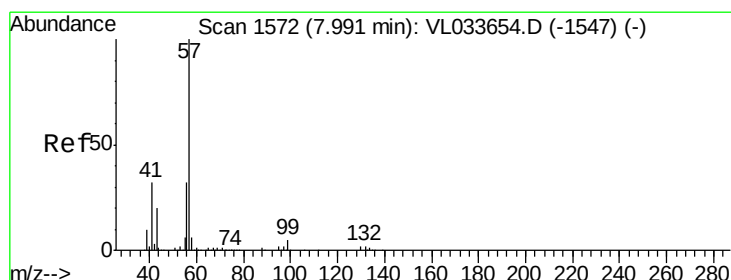
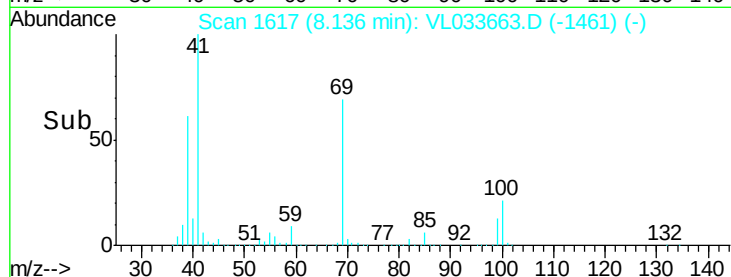
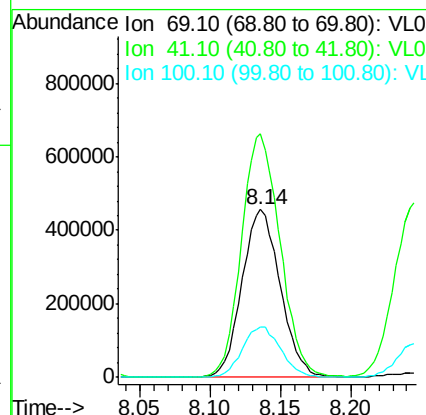
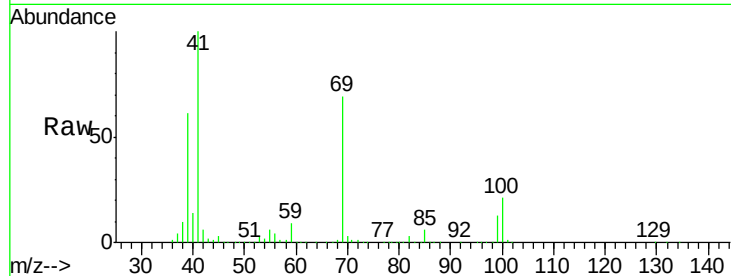
#43
Methyl Methacrylate
Concen: 10.617 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	145.8	116.6	175.0
100	30.3	24.6	37.0

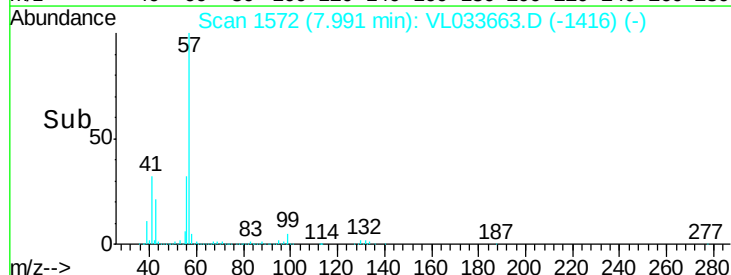
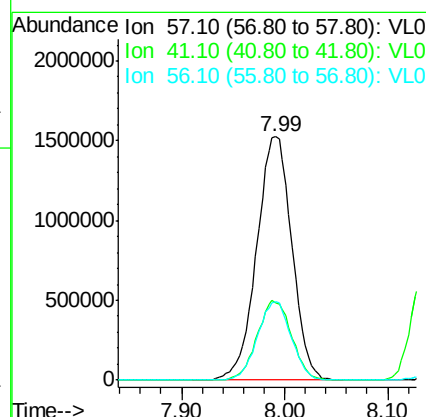
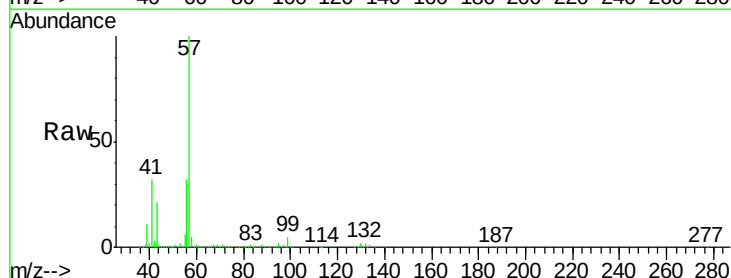
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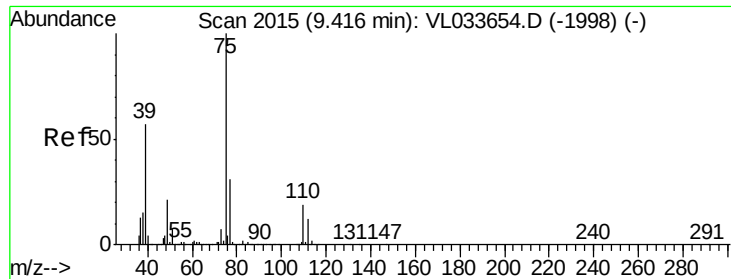
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.645 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.0	25.7	38.5
56	31.1	25.0	37.6





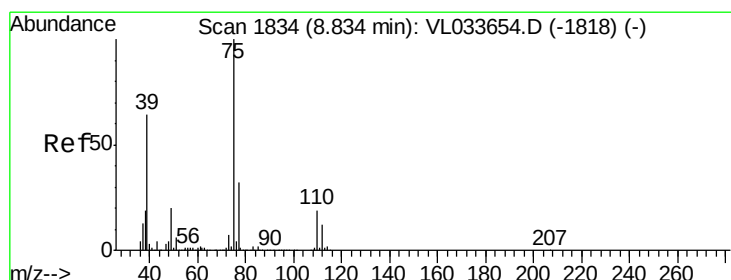
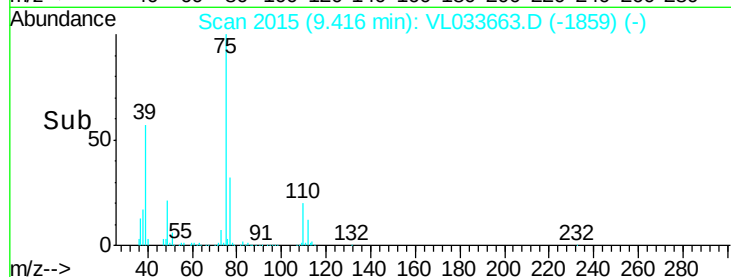
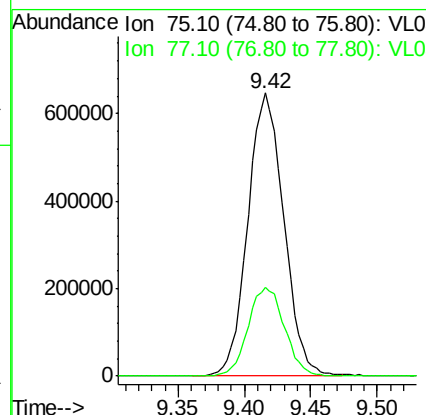
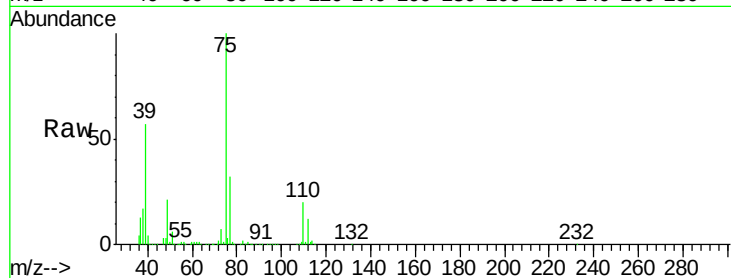
#45
t-1,3-Dichloropropene
Concen: 12.122 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion: 75 Resp: 1222509
Ion Ratio Lower Upper
75 100
77 31.5 24.7 37.1

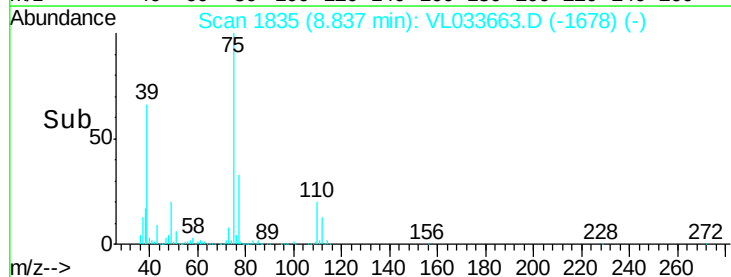
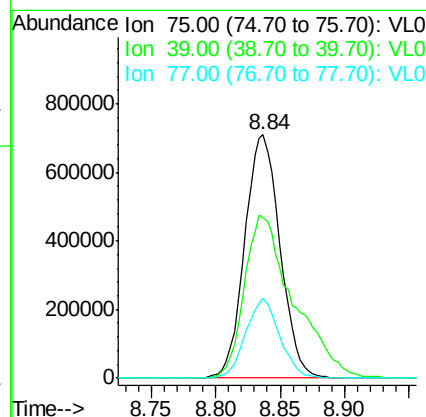
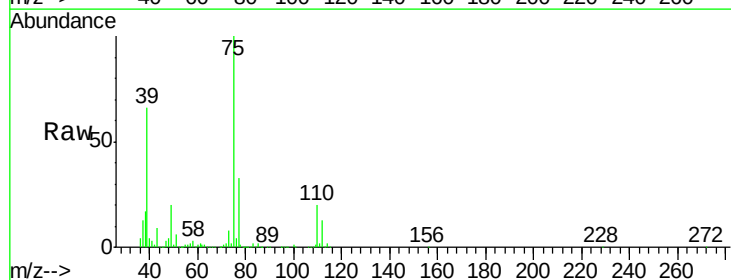
Manual Integrations
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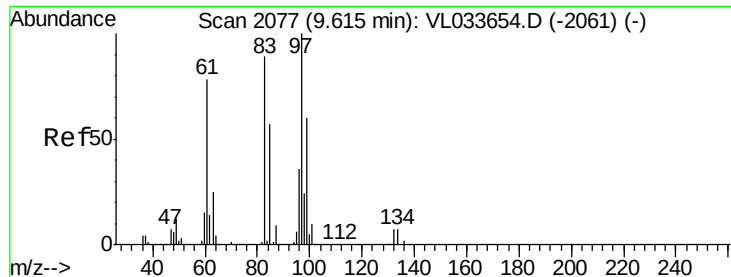
MMDadoda
5/8/2019 12:06:41 PM



#46
cis-1,3-Dichloropropene
Concen: 10.744 ppbv
RT: 8.84 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion: 75 Resp: 1352262
Ion Ratio Lower Upper
75 100
39 65.7 51.5 77.3
77 32.7 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 9.516 ppbv

RT: 9.62 min Scan# 2078

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion: 97 Resp: 889705

Ion Ratio Lower Upper

97 100

83 87.7 70.9 106.3

85 56.7 45.8 68.6

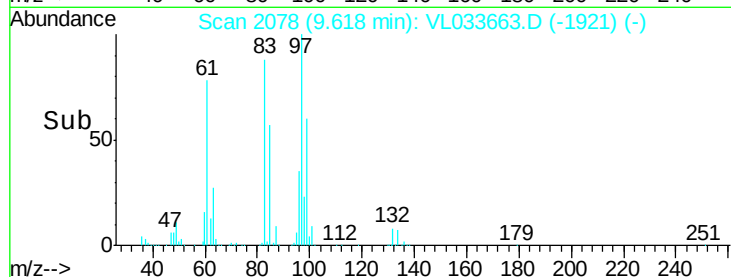
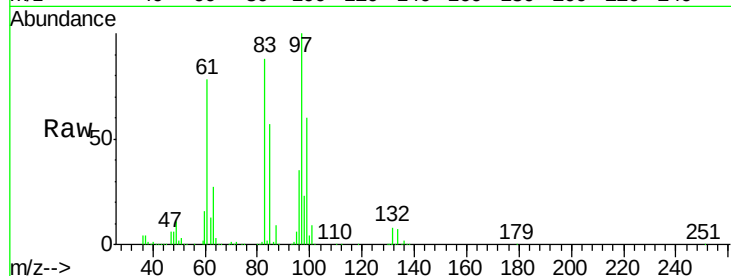
99 60.2 48.2 72.4

Manual Integrations

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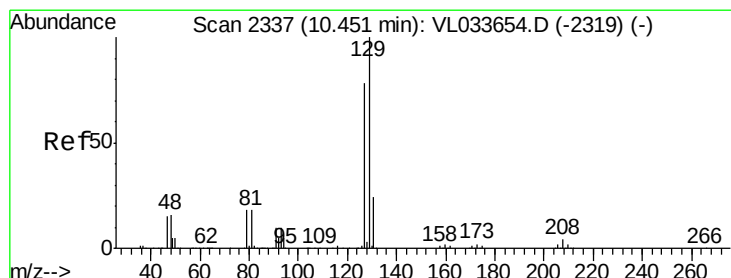
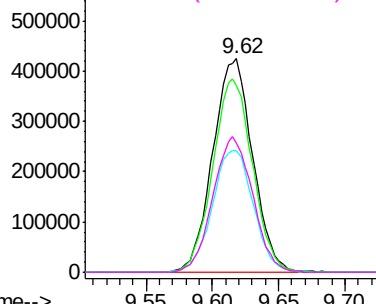


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.475 ppbv

RT: 10.45 min Scan# 2337

Delta R.T. 0.00 min

Lab File: VL033663.D

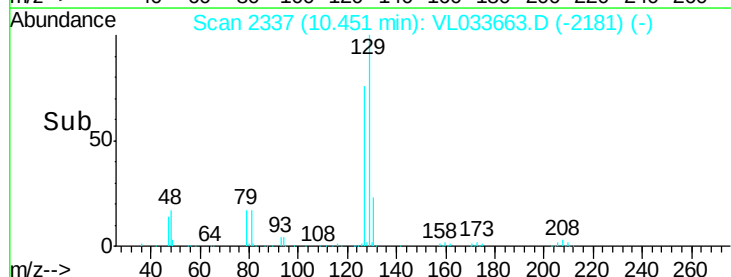
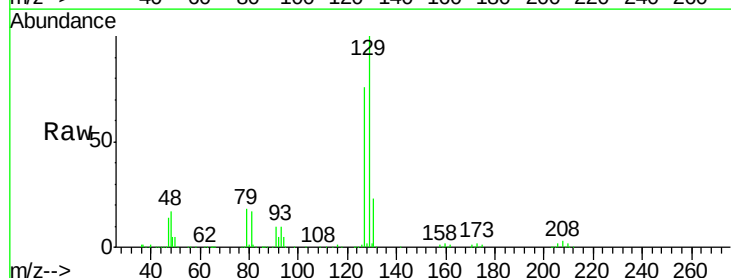
Acq: 6 May 2019 17:51

Tgt Ion: 129 Resp: 1660234

Ion Ratio Lower Upper

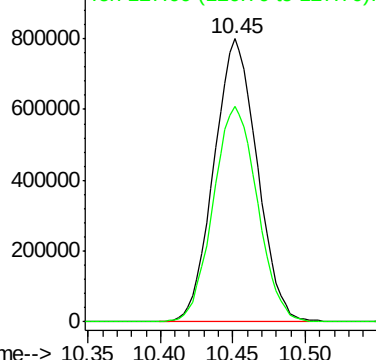
129 100

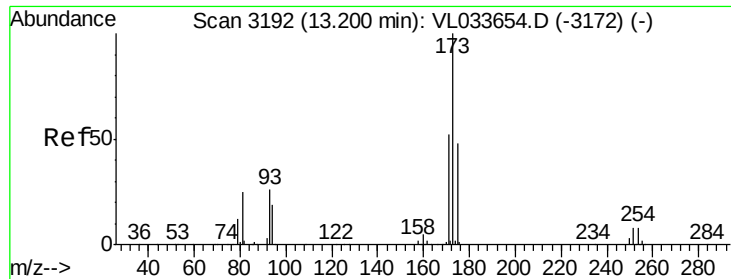
127 78.0 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





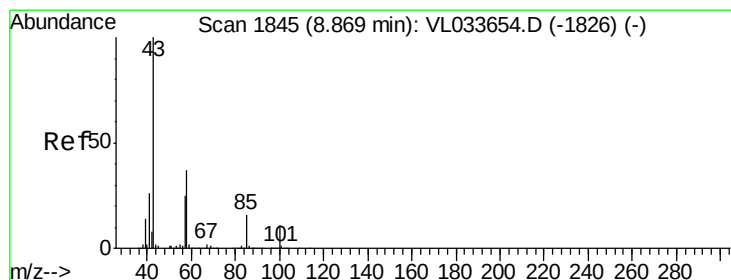
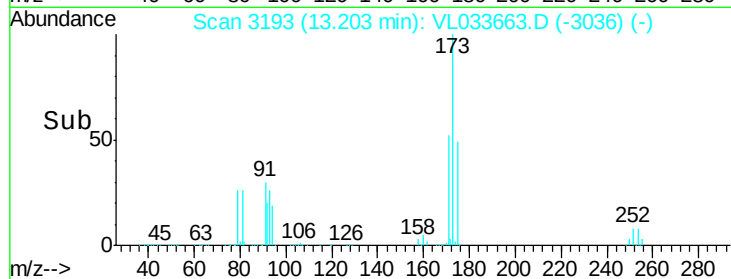
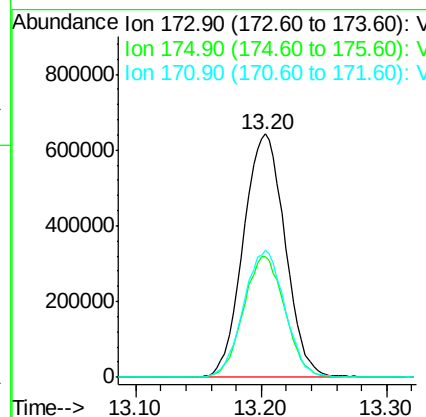
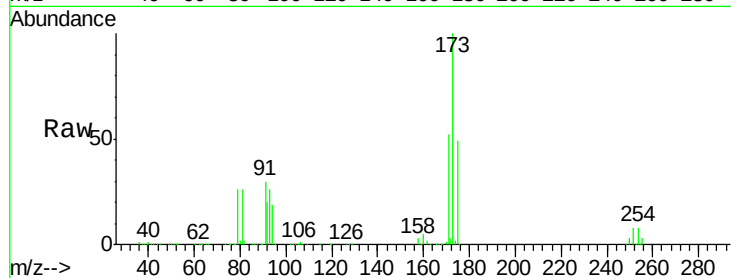
#49
Bromoform
Concen: 10.786 ppbv
RT: 13.20 min Scan# 3193
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion:173 Resp: 1484993
Ion Ratio Lower Upper
173 100
175 49.2 39.3 58.9
171 51.9 41.5 62.3

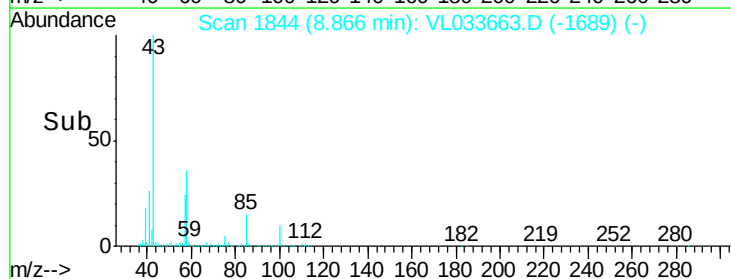
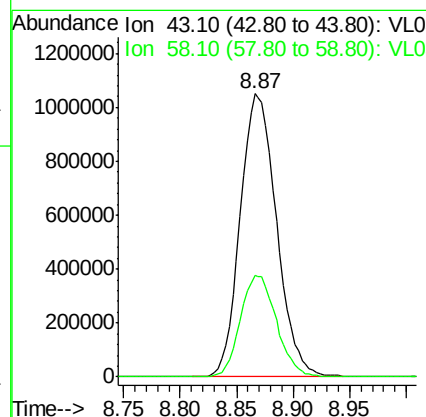
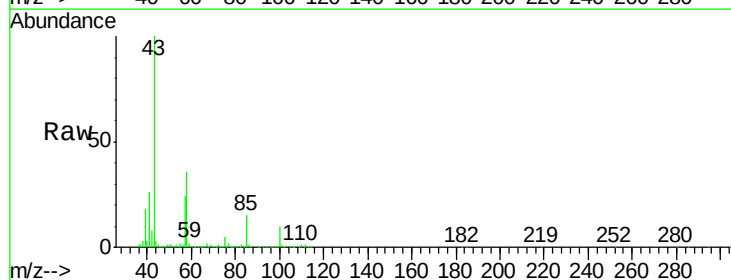
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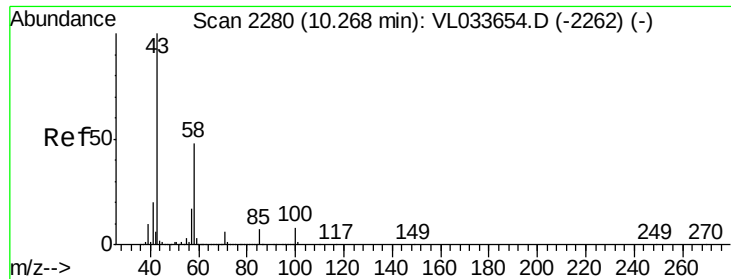
MMDadoda
5/8/2019 12:06:41 PM



#50
4-Methyl-2-Pentanone
Concen: 9.949 ppbv
RT: 8.87 min Scan# 1844
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion: 43 Resp: 2349977
Ion Ratio Lower Upper
43 100
58 35.6 28.8 43.2





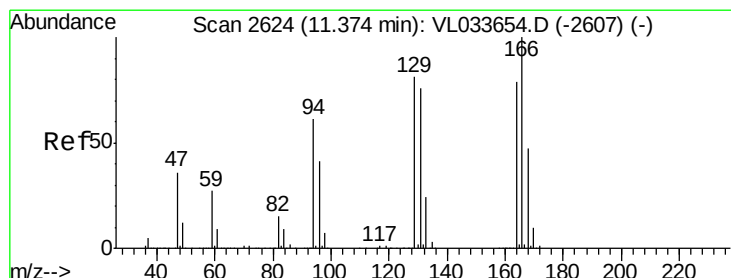
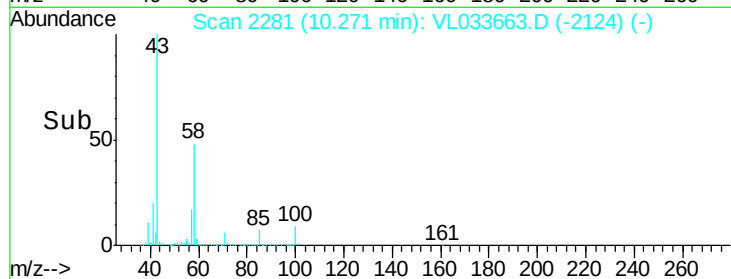
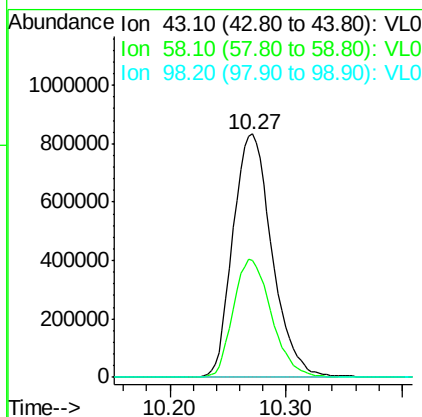
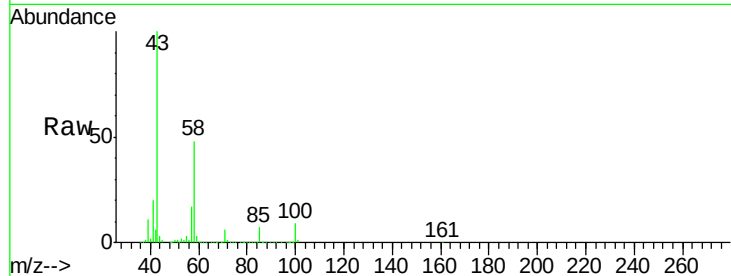
#51
2-Hexanone
Concen: 10.608 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion: 43 Resp: 1941353
Ion Ratio Lower Upper
43 100
58 47.8 38.2 57.4
98 0.3 0.2 0.4

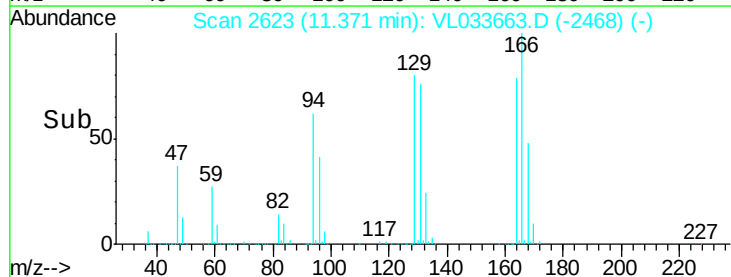
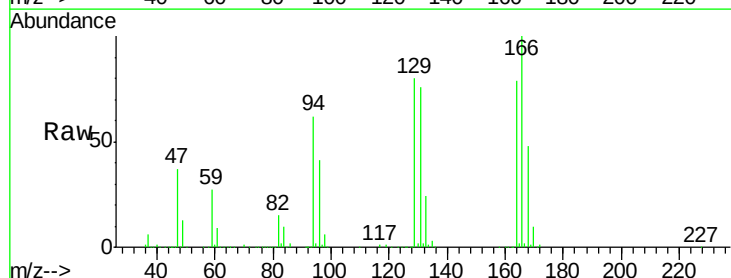
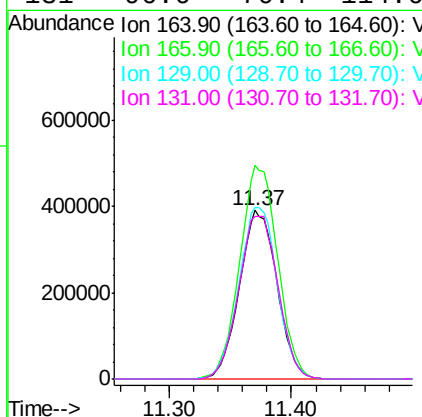
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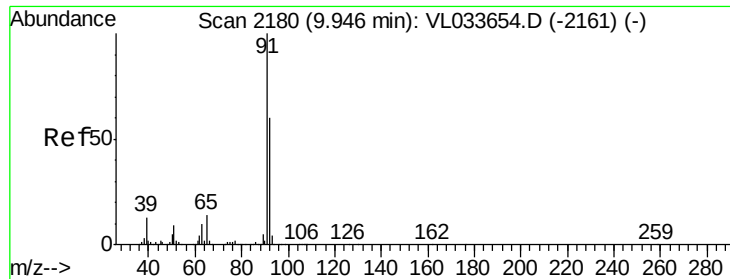
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#52
Tetrachloroethene
Concen: 10.729 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion: 164 Resp: 830345
Ion Ratio Lower Upper
164 100
166 126.5 100.6 151.0
129 101.2 81.0 121.6
131 96.6 76.4 114.6





#53

Toluene

Concen: 10.804 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion: 91 Resp: 2549887

Ion Ratio Lower Upper

91 100

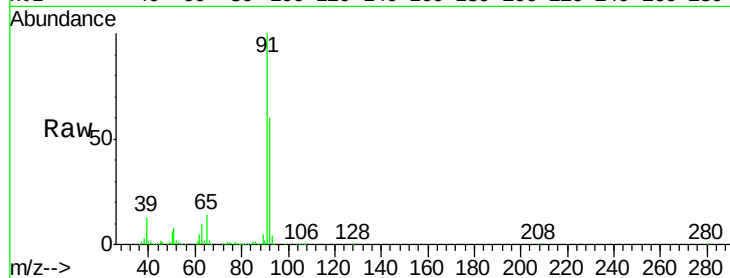
92 59.3 47.7 71.5

Manual Integrations

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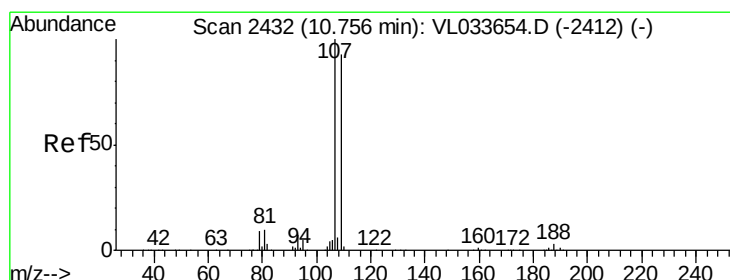
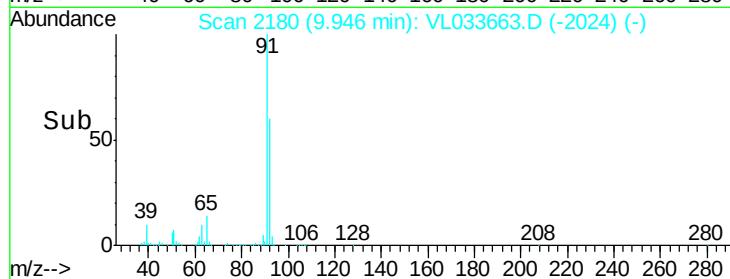
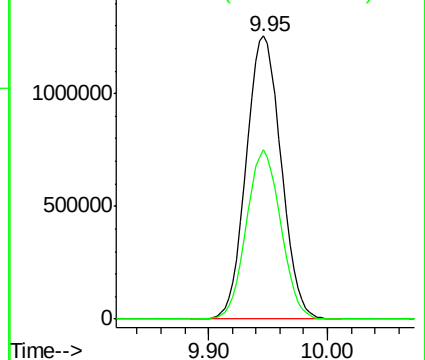
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.120 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033663.D

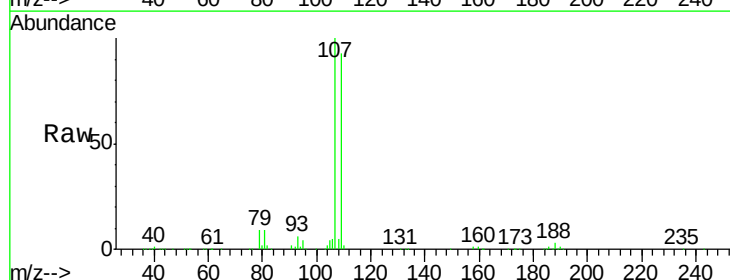
Acq: 6 May 2019 17:51

Tgt Ion:107 Resp: 1425300

Ion Ratio Lower Upper

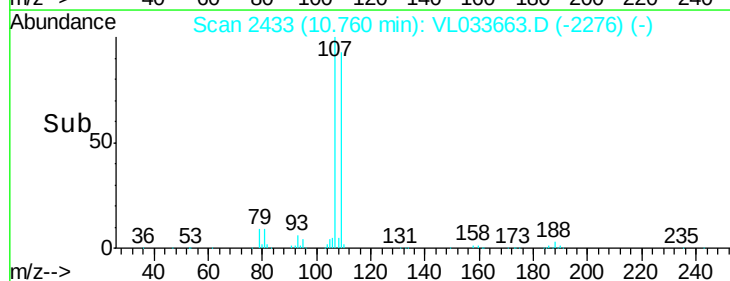
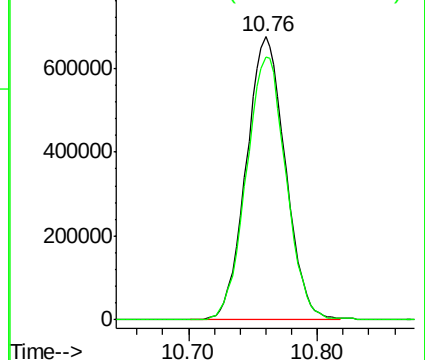
107 100

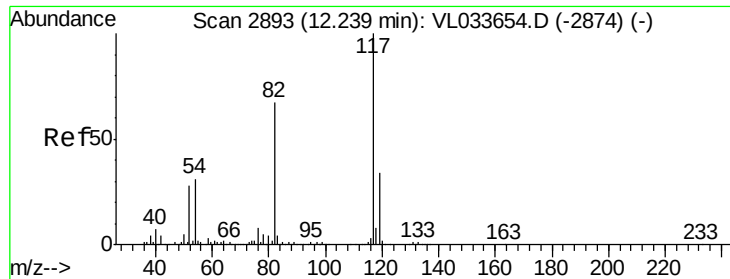
109 92.7 74.6 111.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





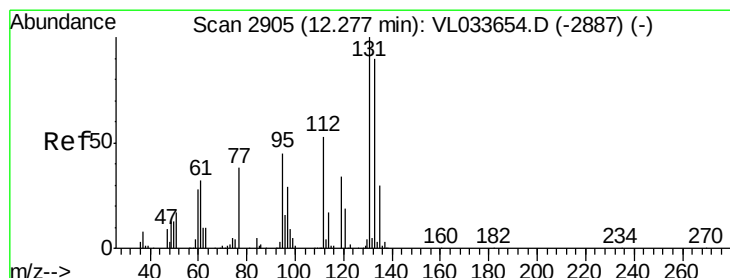
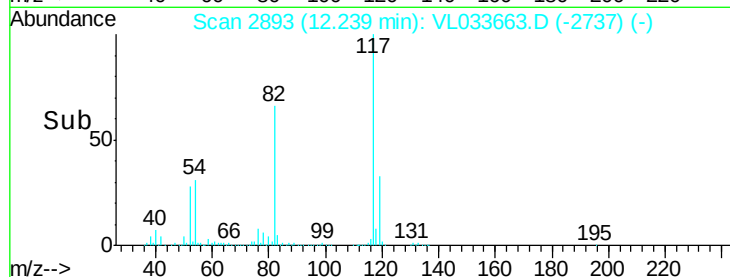
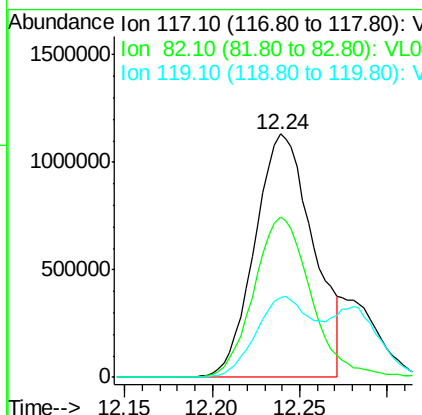
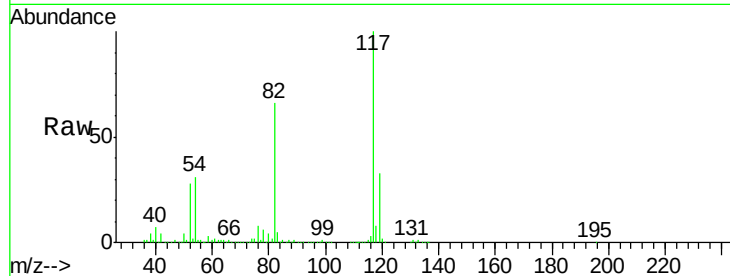
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion:117 Resp: 2611174
Ion Ratio Lower Upper
117 100
82 65.1 49.7 74.5
119 31.5 24.8 37.2

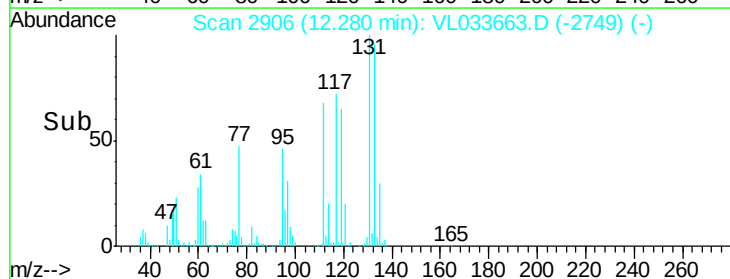
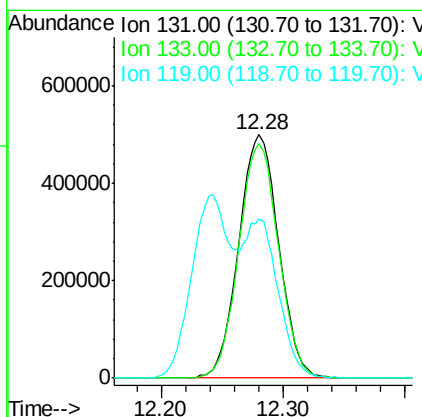
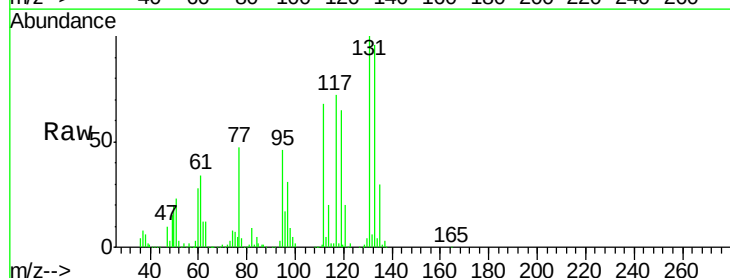
Manual Integrations
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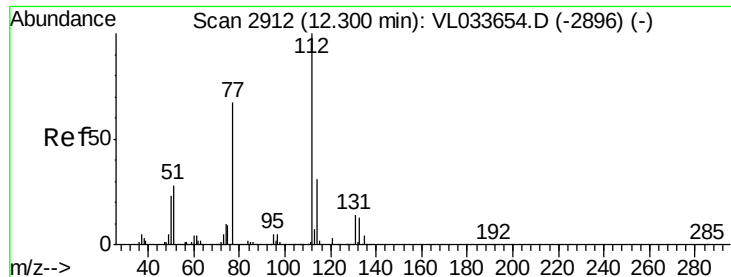
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.346 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion:131 Resp: 1125750
Ion Ratio Lower Upper
131 100
133 96.3 76.0 114.0
119 132.4 45.4 68.2#





#57

Chlorobenzene

Concen: 9.342 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

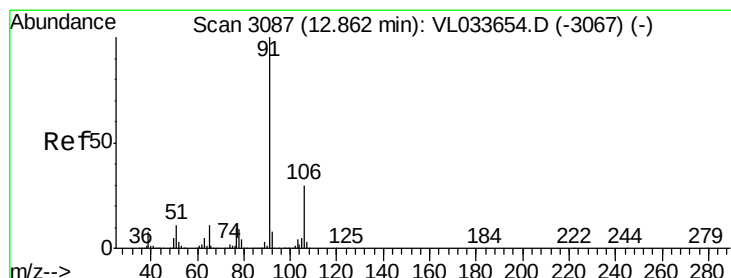
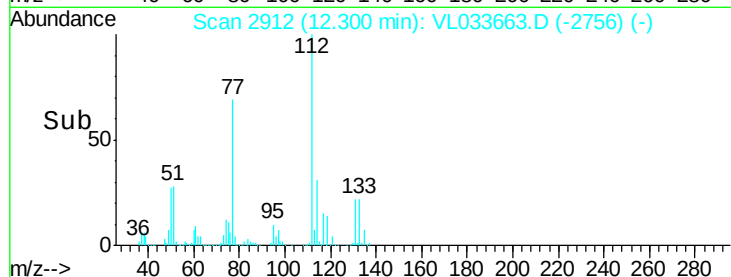
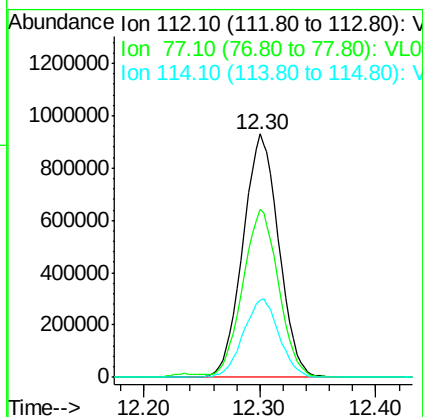
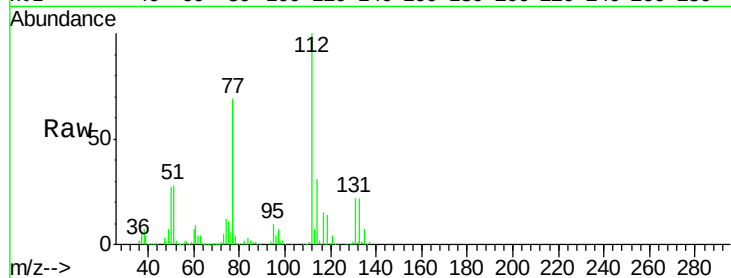
ClientSampleId :

VL0506ABS01

Tot Ion:	112	Resp:	2002827
Ion	Ratio	Lower	Upper
112	100		
77	68.8	54.4	81.6
114	31.5	28.2	34.4

Manual Integrations
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#58

Ethyl Benzene

Concen: 10.477 ppbv

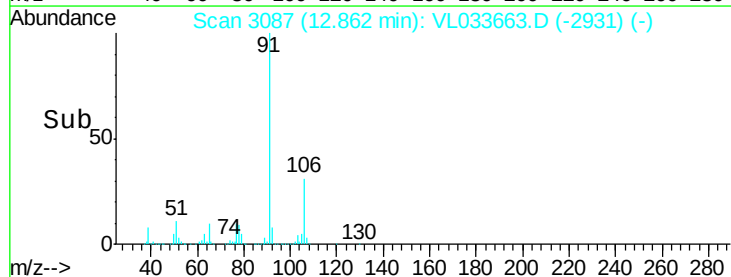
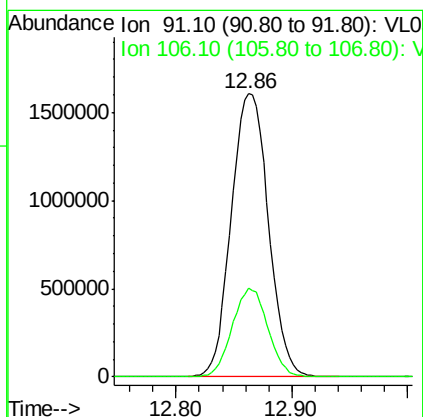
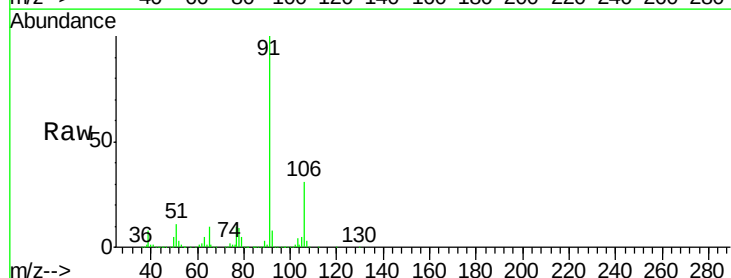
RT: 12.86 min Scan# 3087

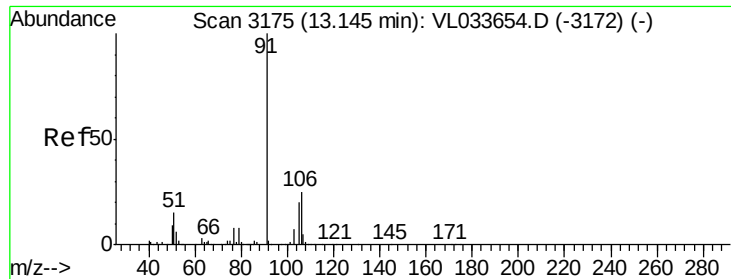
Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Tgt Ion:	91	Resp:	3567627
Ion	Ratio	Lower	Upper
91	100		
106	31.2	23.7	35.5





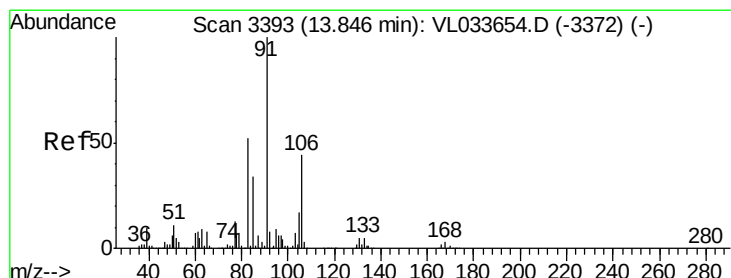
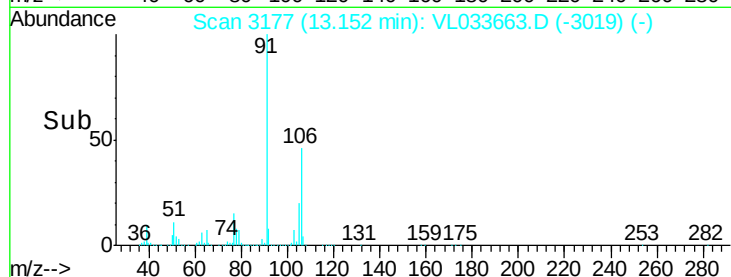
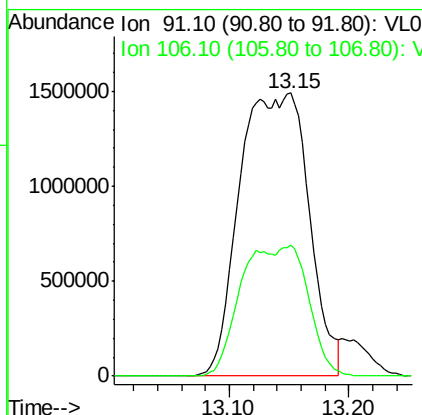
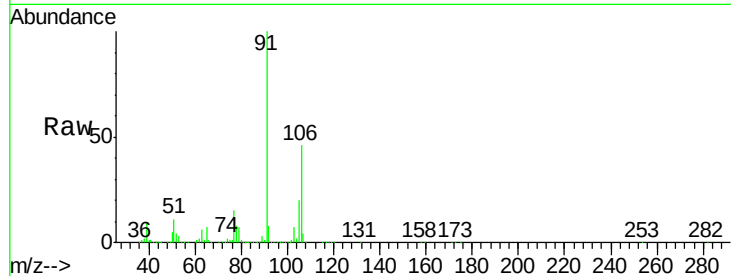
#59
m/p-Xylene
Concen: 19.911 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.01 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

Tot Ion: 91 Resp: 5971904
Ion Ratio Lower Upper
91 100
106 45.1 36.2 54.2

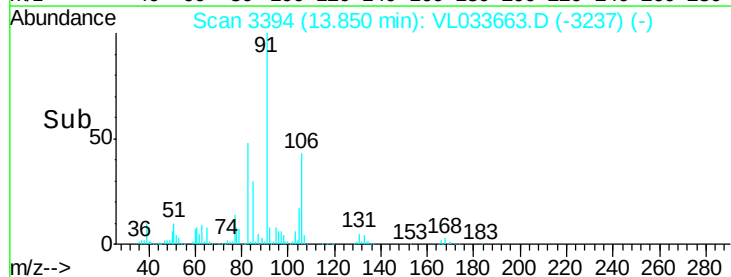
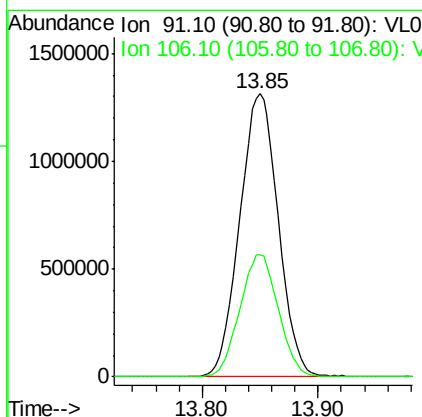
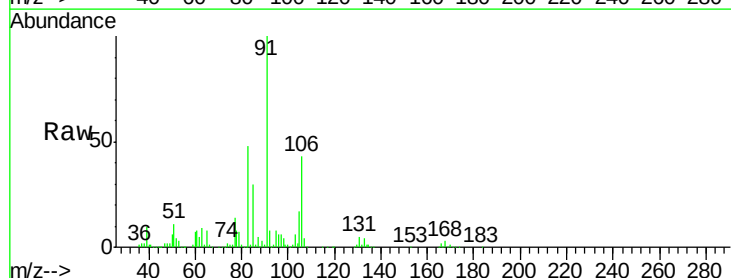
Manual Integrations
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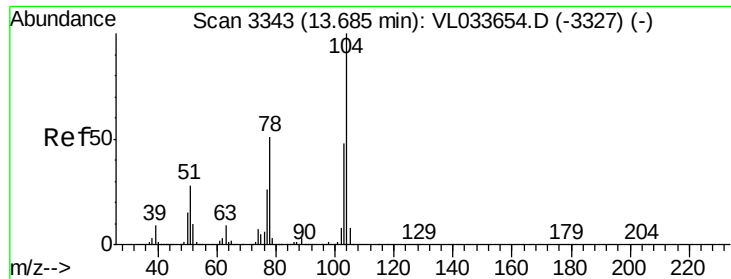
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#60
o-Xylene
Concen: 9.986 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion: 91 Resp: 3030940
Ion Ratio Lower Upper
91 100
106 43.3 21.7 65.1





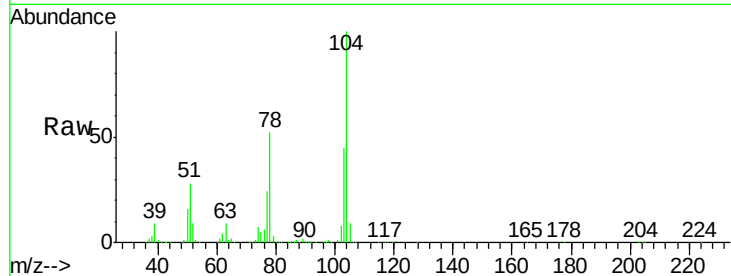
#61
Stvrene
Concen: 11.139 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Instrument :
MSVOA_L
ClientSampleId :
VL0506ABS01

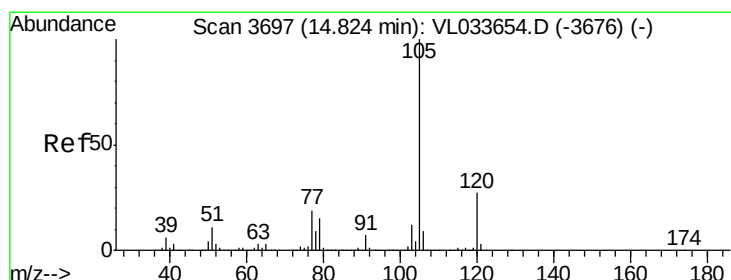
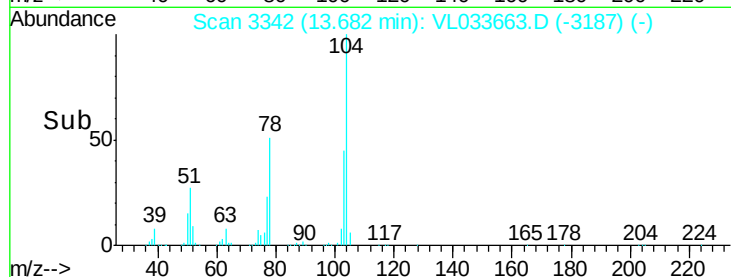
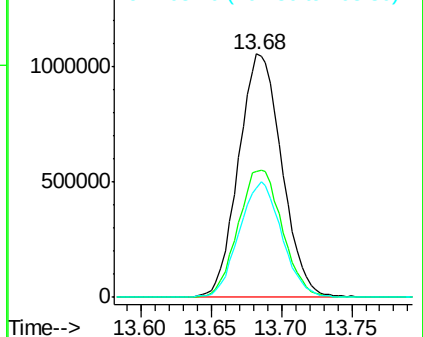
Tot Ion	Ratio	Lower	Upper
104	100		
78	53.8	43.0	64.6
103	47.2	38.1	57.1

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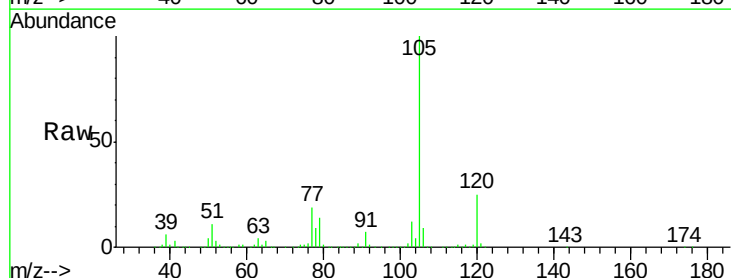


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): V
Ion 103.10 (102.80 to 103.80): V

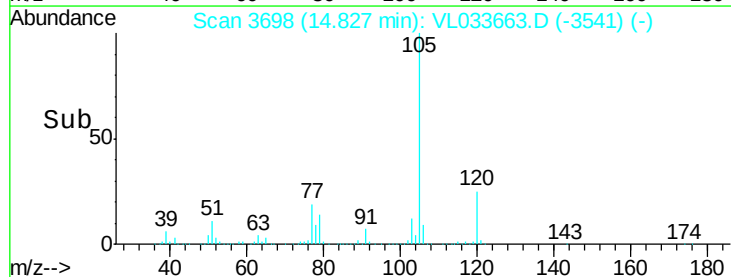
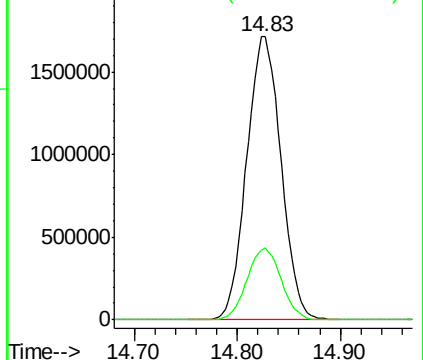


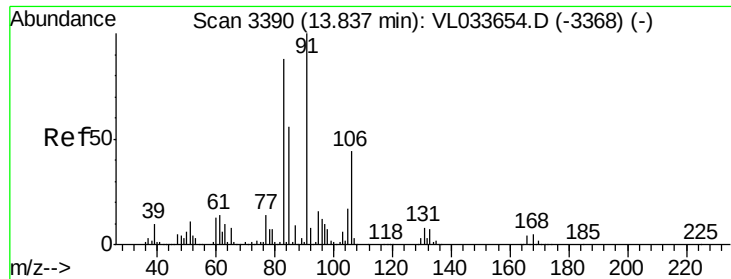
#62
Isopropylbenzene
Concen: 9.570 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. 0.00 min
Lab File: VL033663.D
Acq: 6 May 2019 17:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.5	30.7



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.246 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion: 83 Resp: 2042455

Ion Ratio Lower Upper

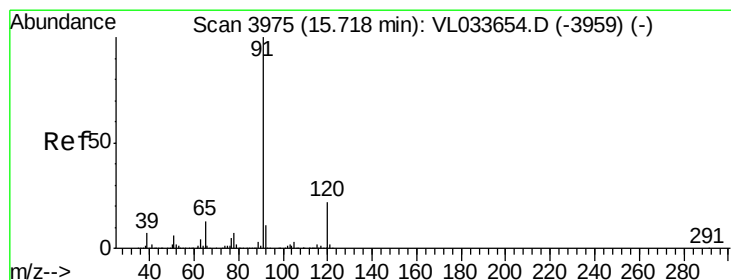
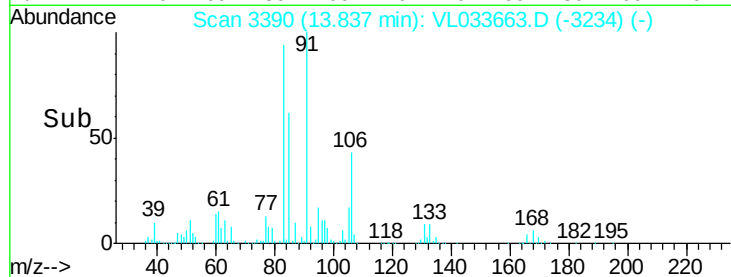
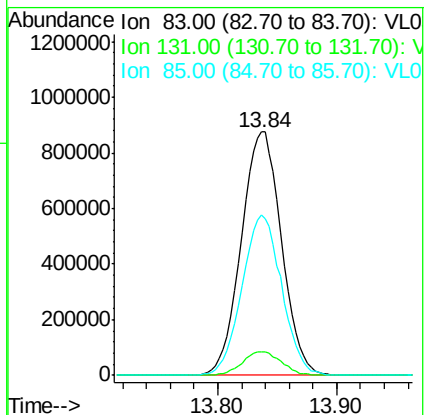
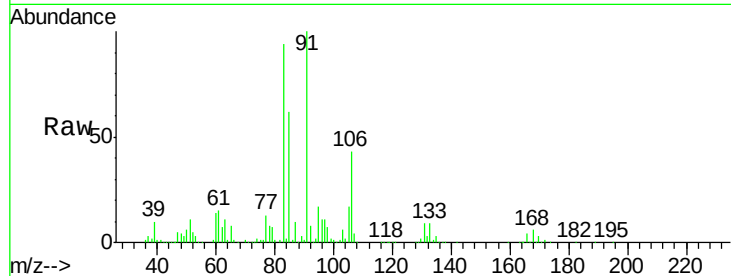
83 100

131 9.6 4.8 14.3

85 65.2 32.5 97.4

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#64

n-propylbenzene

Concen: 9.505 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. 0.00 min

Lab File: VL033663.D

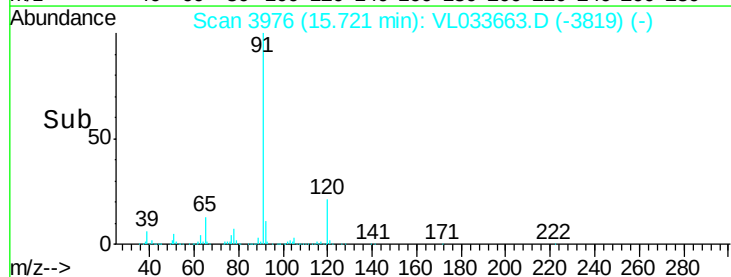
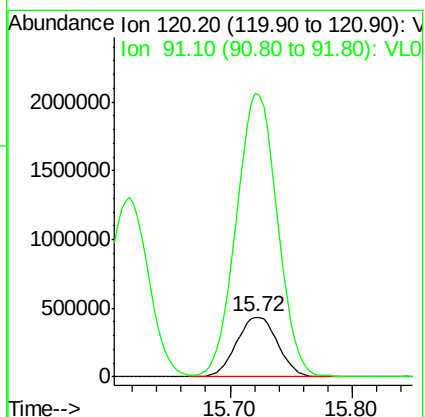
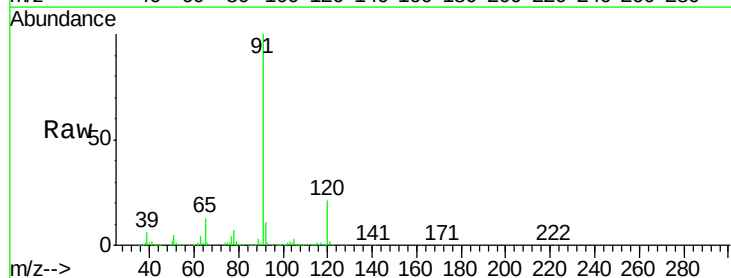
Acq: 6 May 2019 17:51

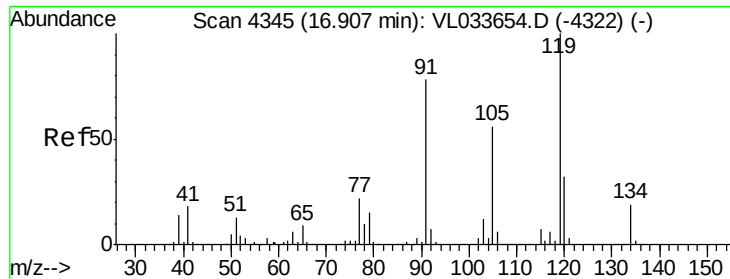
Tgt Ion:120 Resp: 1018034

Ion Ratio Lower Upper

120 100

91 472.3 379.0 568.6





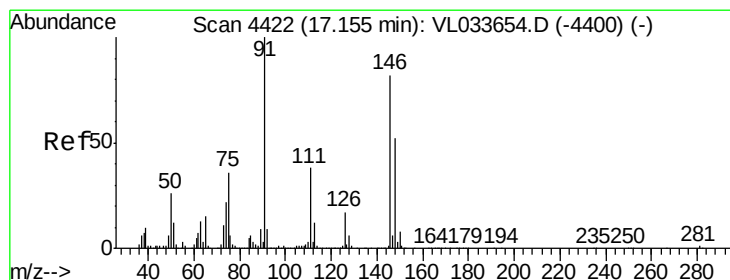
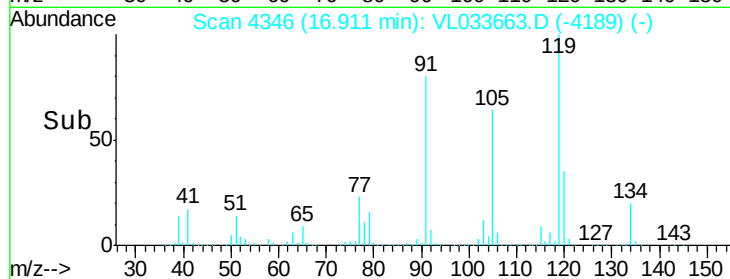
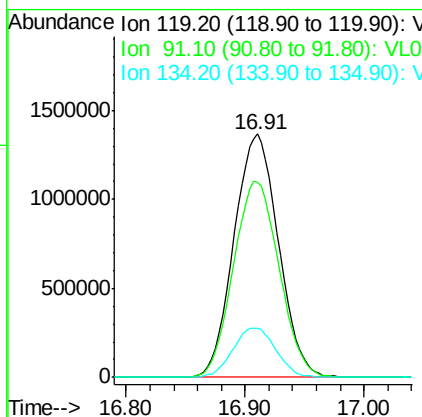
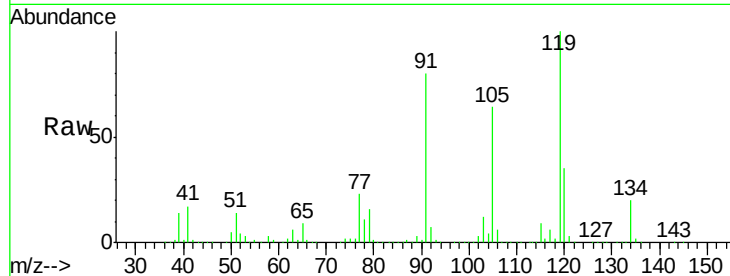
#65
 tert-Butylbenzene
 Concen: 9.283 ppbv
 RT: 16.91 min Scan# 4346
 Delta R.T. 0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABS01

Tot Ion:119 Resp: 3529288
 Ion Ratio Lower Upper
 119 100
 91 83.1 65.9 98.9
 134 19.6 15.5 23.3

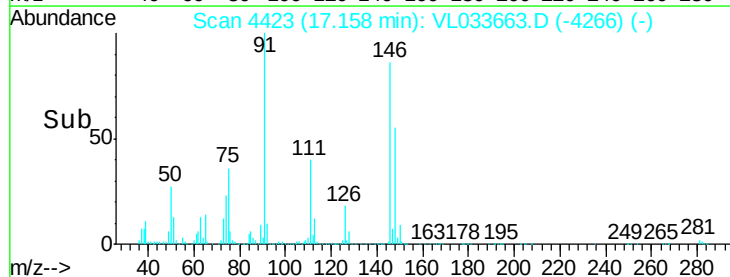
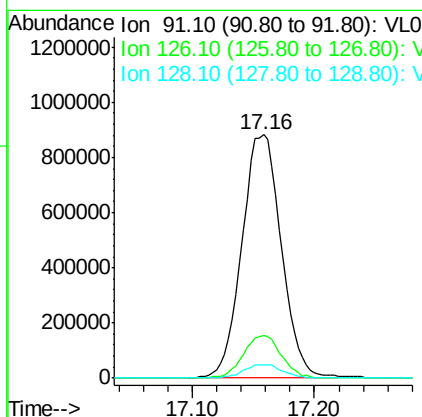
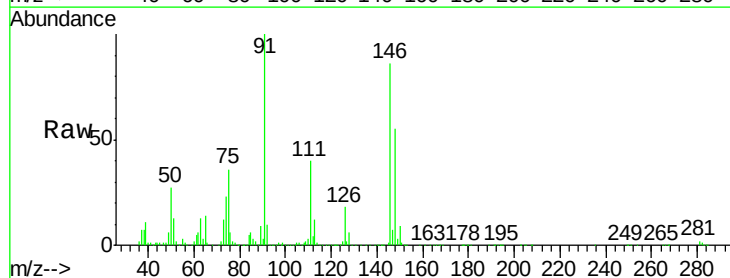
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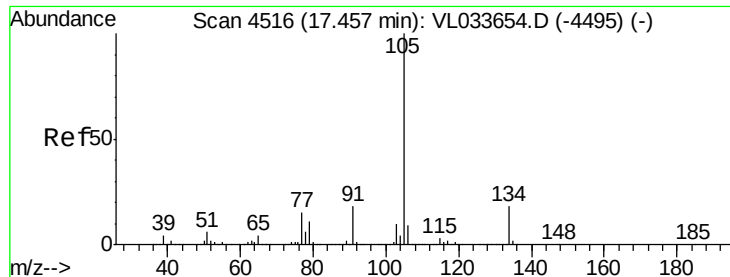
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#66
 Benzyl Chloride
 Concen: 11.378 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. 0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Tgt Ion: 91 Resp: 1967747
 Ion Ratio Lower Upper
 91 100
 126 16.9 13.4 20.2
 128 5.4 4.4 6.6





#67

sec-Butylbenzene

Concen: 9.330 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion:105 Resp: 4948804

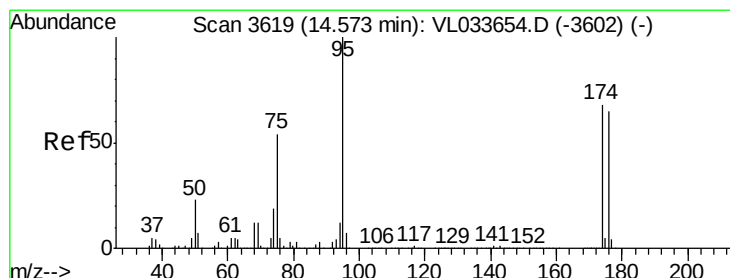
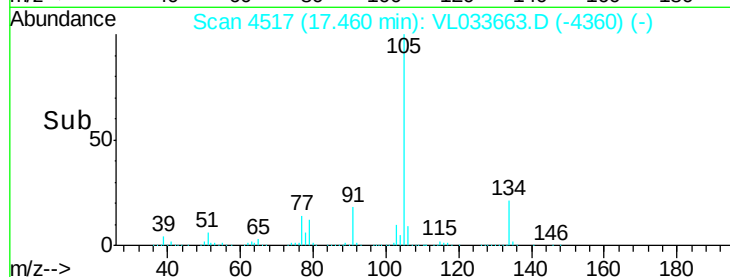
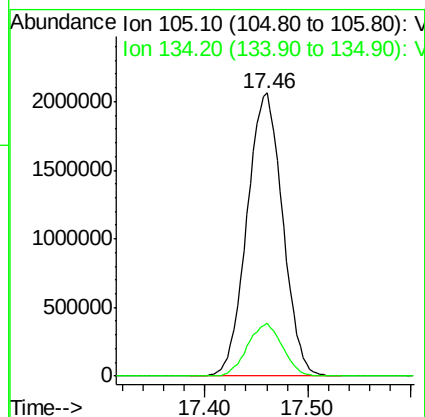
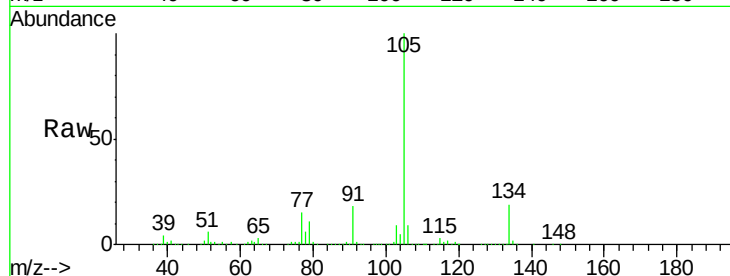
Ion Ratio Lower Upper

105 100

134 18.3 14.6 22.0

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.823 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

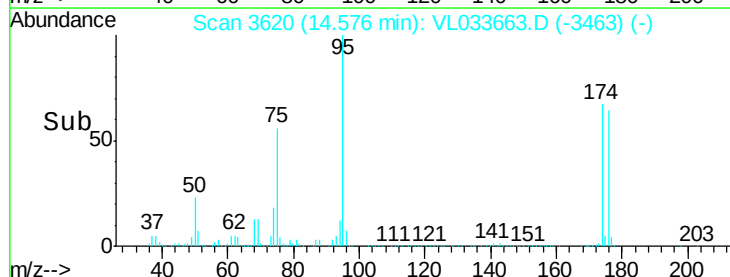
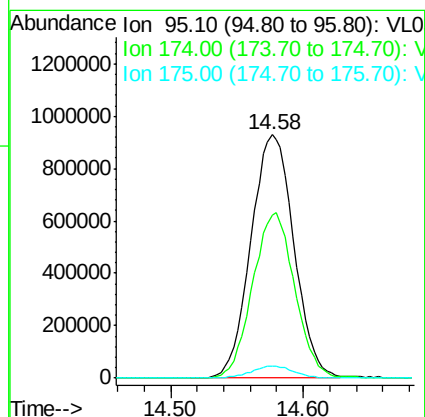
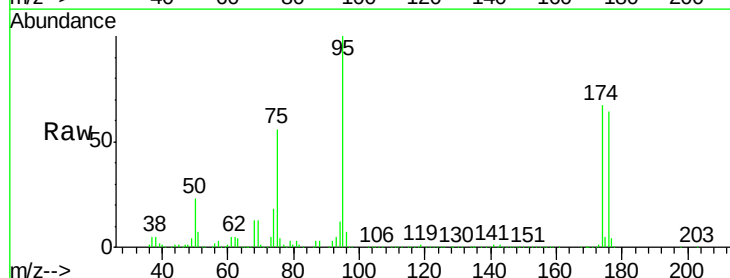
Tgt Ion: 95 Resp: 2102602

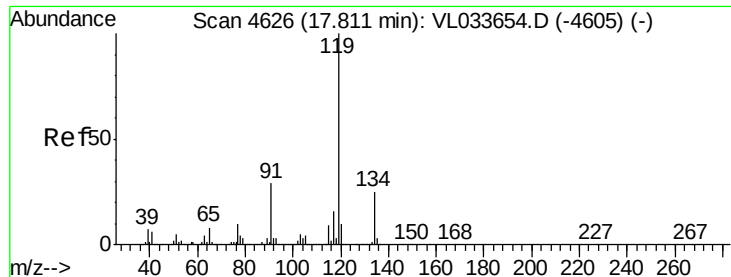
Ion Ratio Lower Upper

95 100

174 66.7 54.0 81.0

175 4.8 3.8 5.8





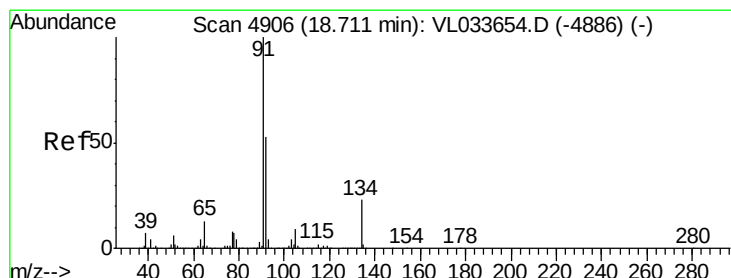
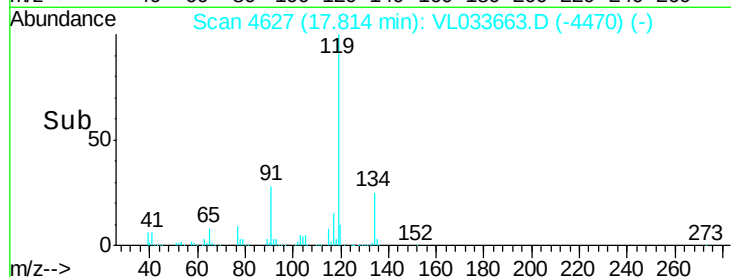
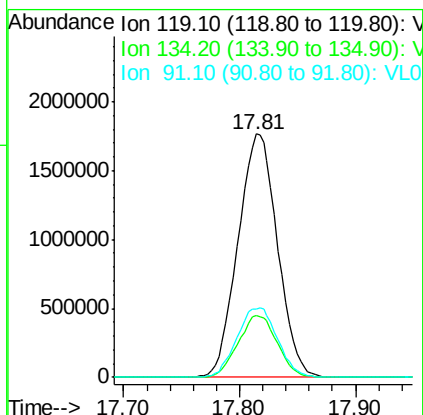
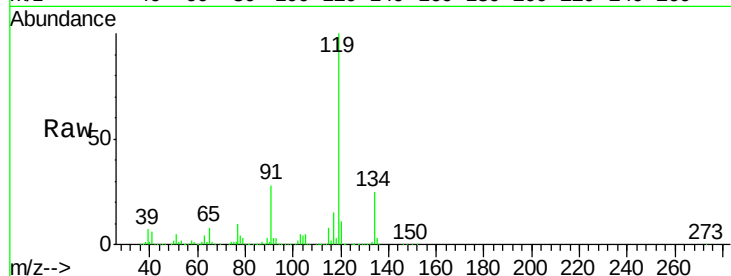
#69
 p-Isopropyltoluene
 Concen: 9.537 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. 0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.2	30.2
91	29.5	23.4	35.2

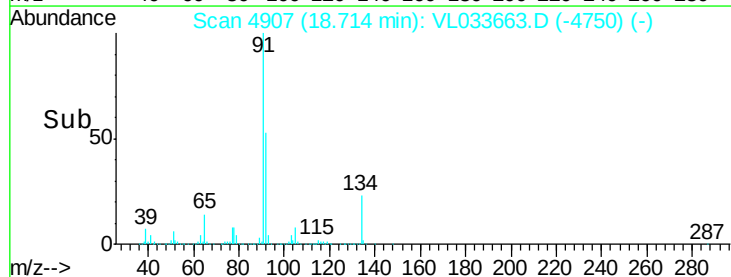
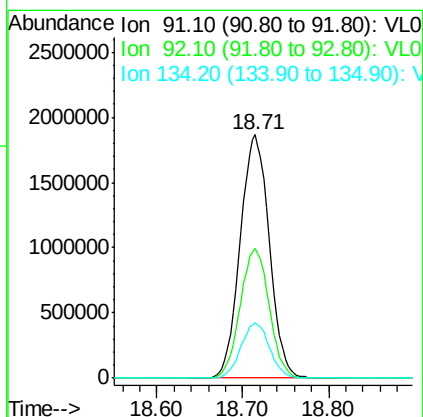
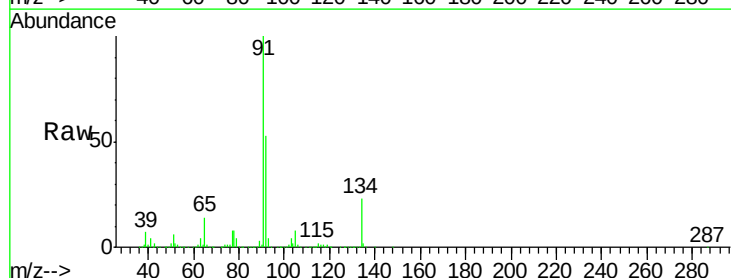
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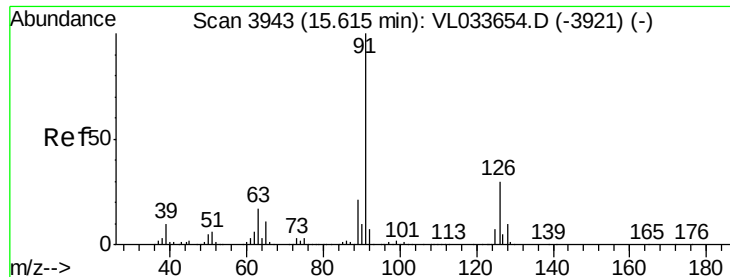
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#70
 n-Butylbenzene
 Concen: 9.448 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. 0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.5	63.7
134	22.3	18.0	27.0





#71

2-Chlorotoluene

Concen: 9.638 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion: 91 Resp: 2951057

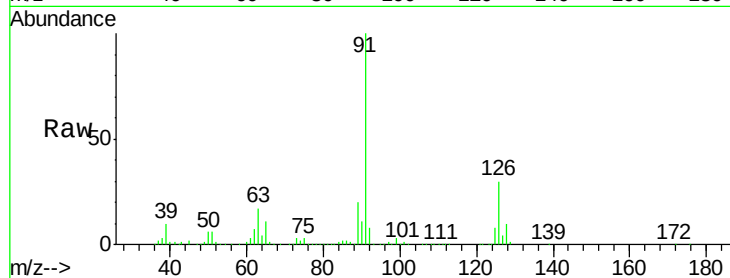
Ion Ratio Lower Upper

91 100

126 29.8 12.0 47.8

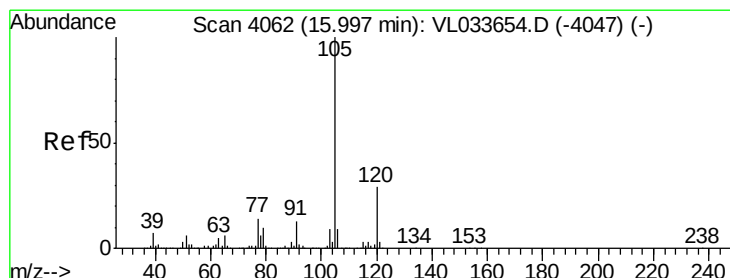
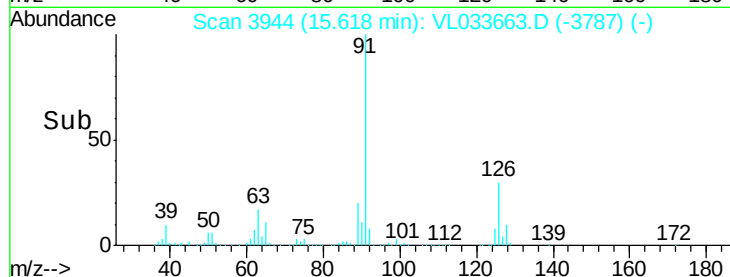
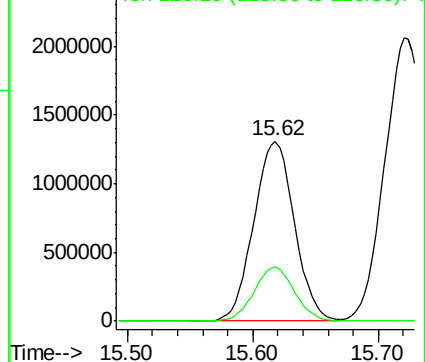
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.680 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Tgt Ion:105 Resp: 3453696

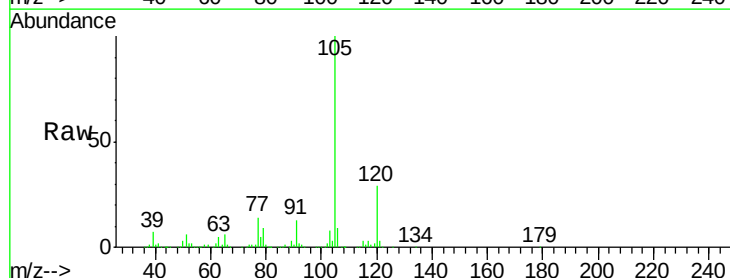
Ion Ratio Lower Upper

105 100

120 29.3 23.0 34.6

91 13.0 10.5 15.7

77 13.8 11.4 17.2

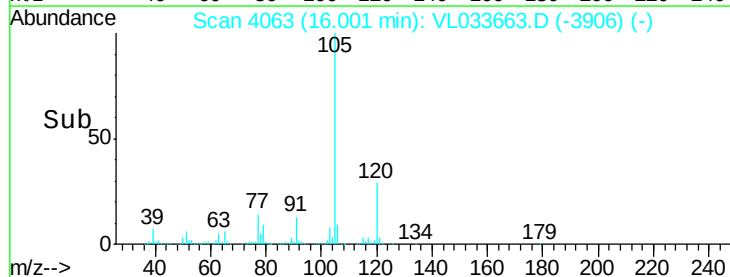
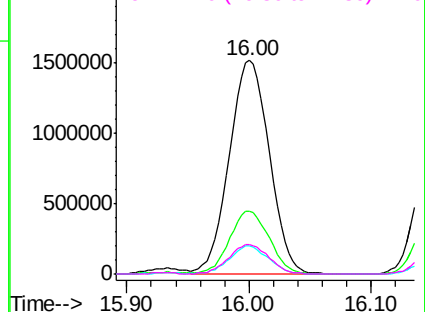


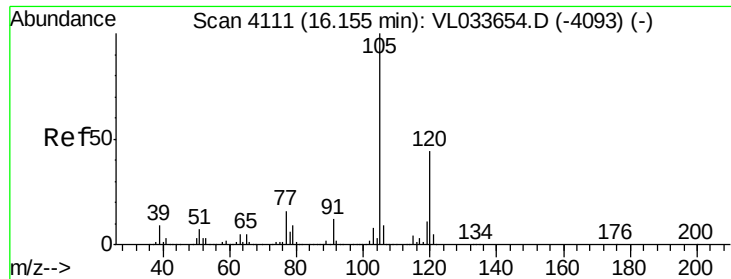
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.515 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion:105 Resp: 3282261

Ion Ratio Lower Upper

105 100

120 45.0

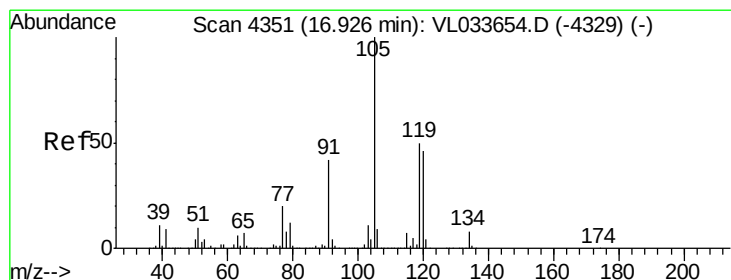
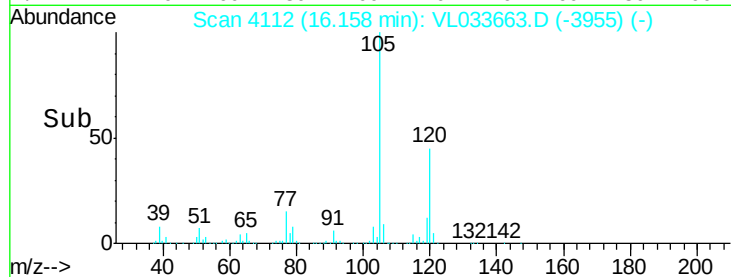
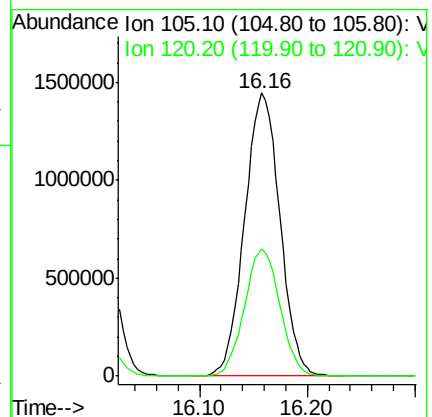
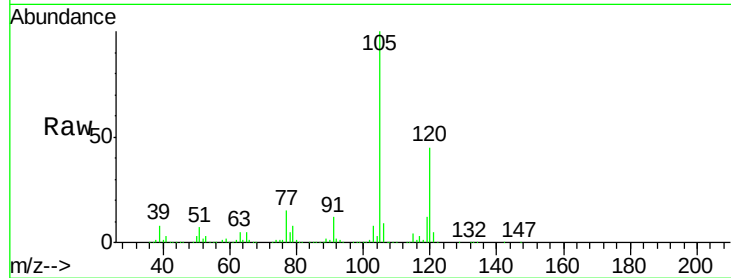
35.5 53.3

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#74

1,2,4-Trimethylbenzene

Concen: 8.966 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Tgt Ion:105 Resp: 3437881

Ion Ratio Lower Upper

105 100

120 47.9

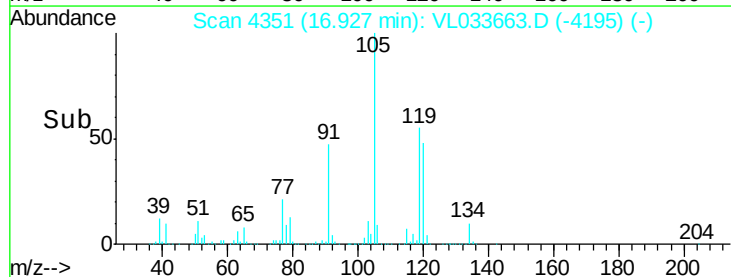
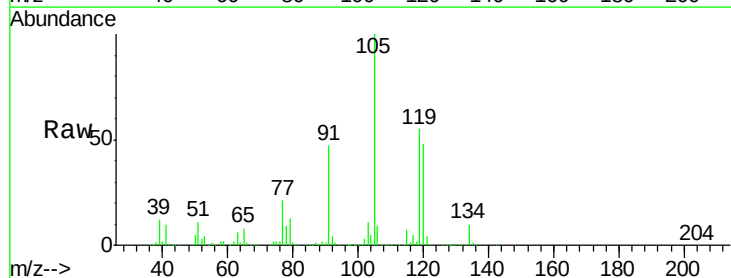
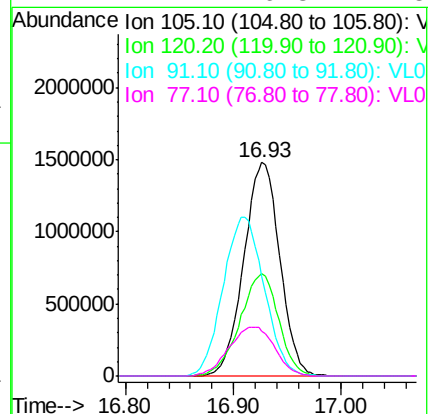
36.5 54.7

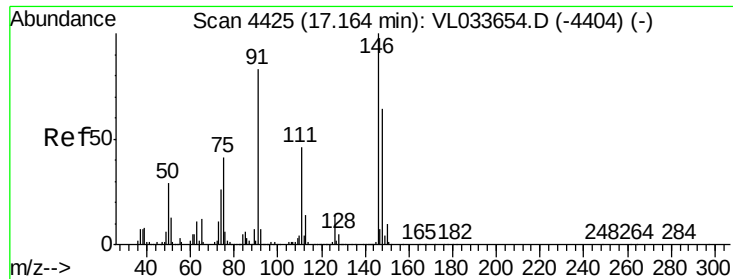
91 46.7

33.7 50.5

77 21.2

16.3 24.5





#75

1,3-Dichlorobenzene

Concen: 8.638 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

VL0506ABS01

Tot Ion:146 Resp: 2000527

Ion Ratio Lower Upper

146 100

111 45.8 22.6 67.7

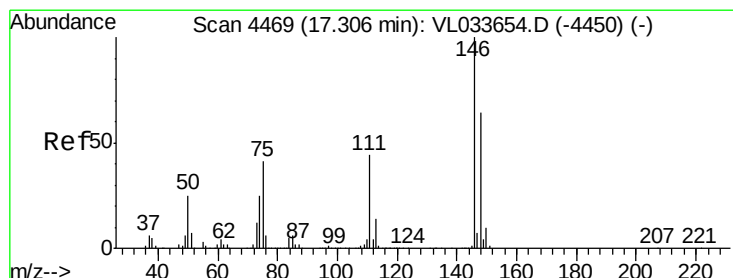
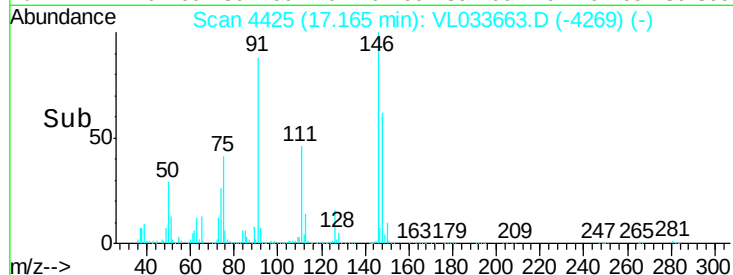
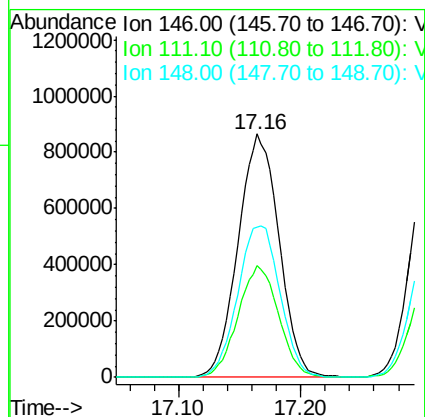
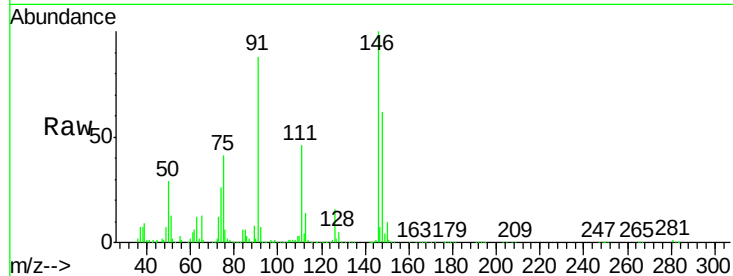
148 64.8 31.8 95.4

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#76

1,4-Dichlorobenzene

Concen: 9.178 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

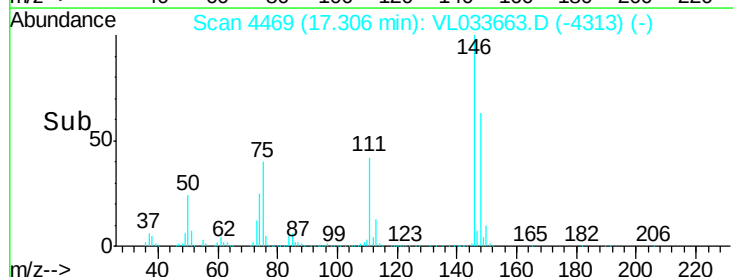
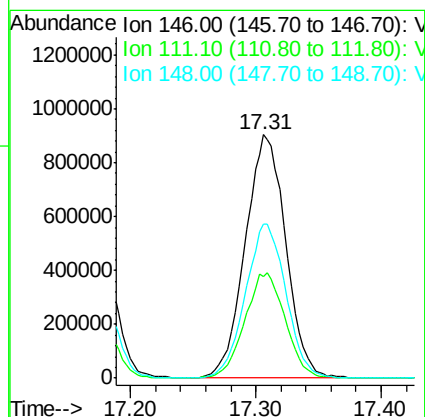
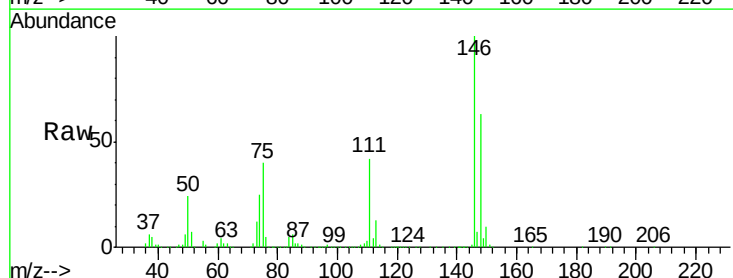
Tgt Ion:146 Resp: 2017324

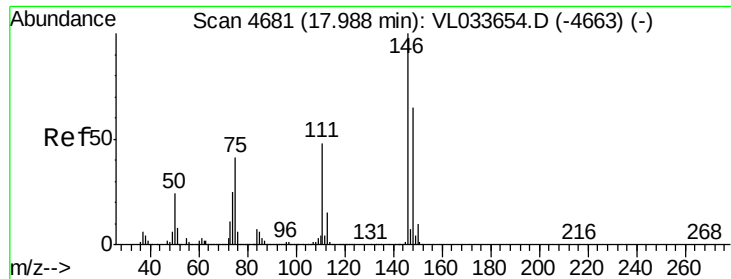
Ion Ratio Lower Upper

146 100

111 43.7 22.0 66.0

148 64.0 32.1 96.5





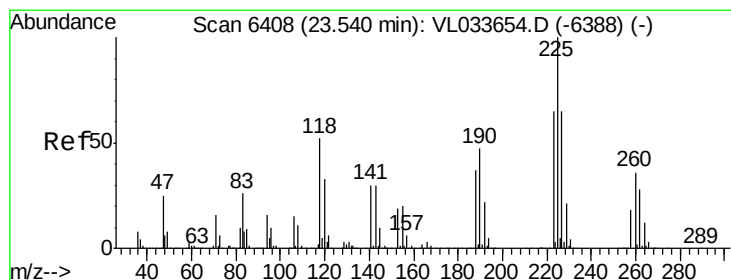
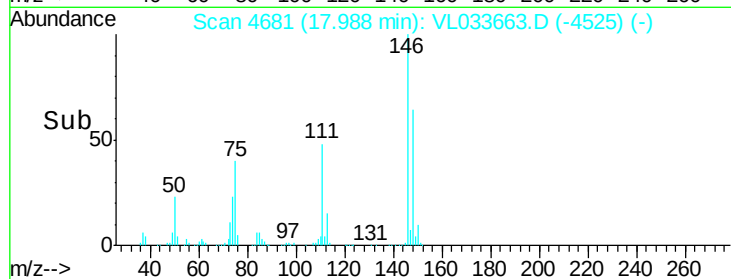
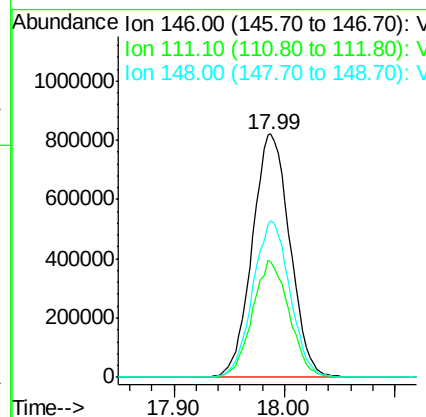
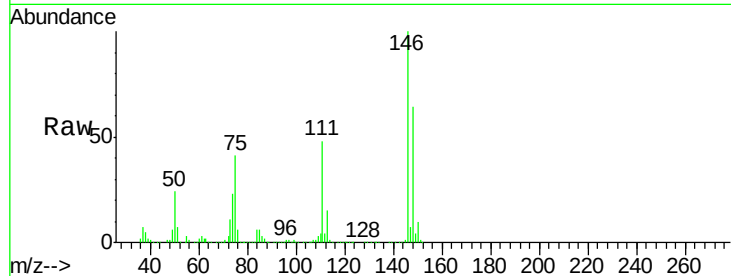
#77
 1,2-Dichlorobenzene
 Concen: 9.048 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. 0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.4	70.0
148	63.5	31.9	95.9

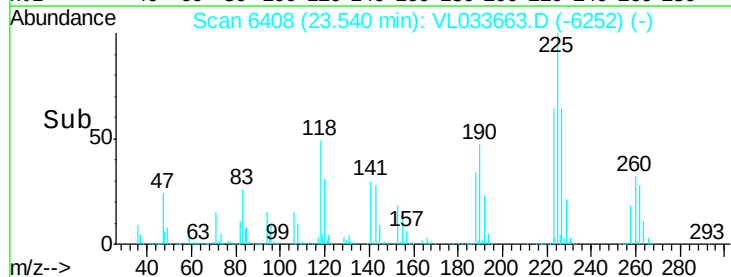
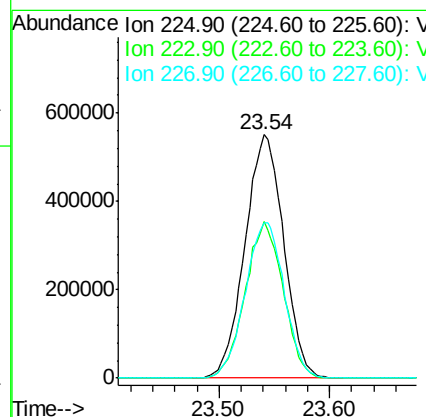
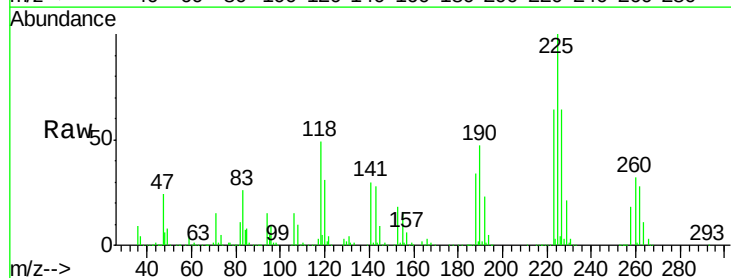
Manual Integrations
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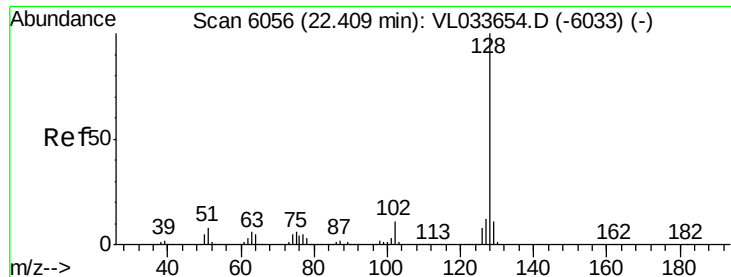
MMDadoda
 5/8/2019 12:06:41 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.875 ppbv
 RT: 23.54 min Scan# 6408
 Delta R.T. 0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.7	76.1
227	64.7	51.4	77.2





#79

Naphthalene

Concen: 11.311 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. 0.00 min

Lab File: VL033663.D

Acq: 6 May 2019 17:51

Instrument :

MSVOA_L

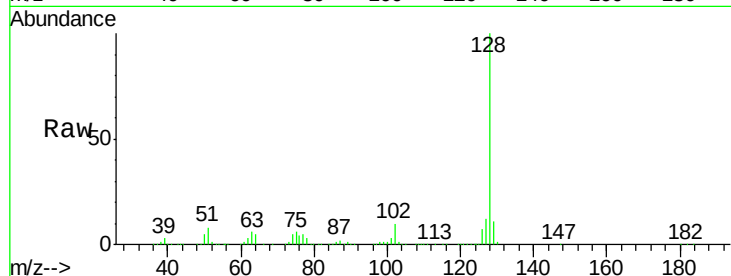
ClientSampleId :

VL0506ABS01

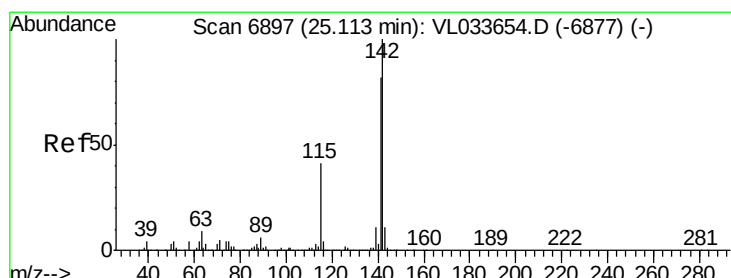
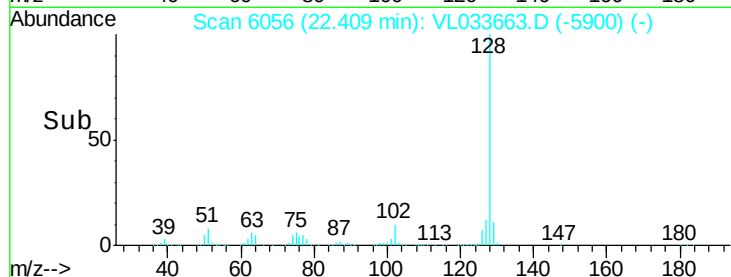
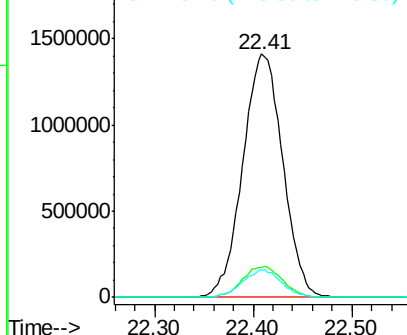
Tot Ion:	128	Resp:	3959881
Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8
129	11.0	8.8	13.2

Manual Integrations
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 19.920 ppbv

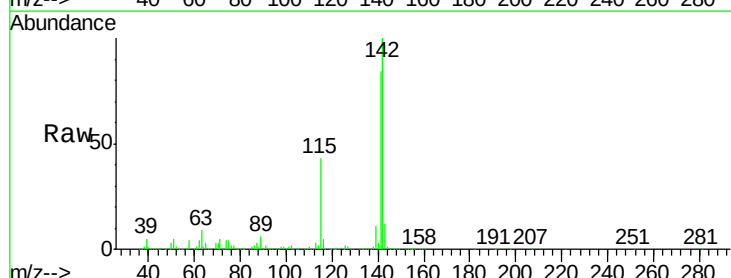
RT: 25.11 min Scan# 6896

Delta R.T. -0.00 min

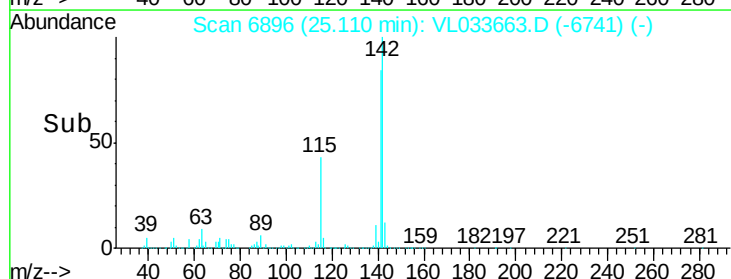
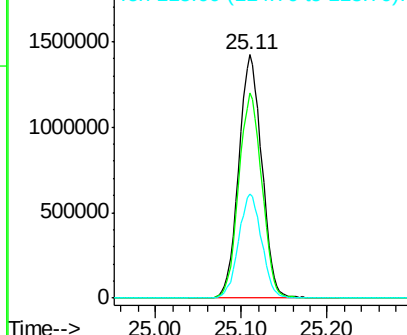
Lab File: VL033663.D

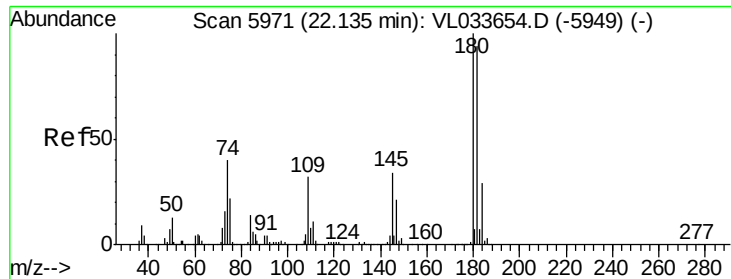
Acq: 6 May 2019 17:51

Tgt Ion:	142	Resp:	2636402
Ion	Ratio	Lower	Upper
142	100		
141	85.1	67.9	101.9
115	42.8	34.2	51.4



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.351 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033663.D
 Acq: 6 May 2019 17:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0506ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.4	116.0
184	30.6	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:41 PM

