

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033962.D
 Acq On : 25 Jun 2019 8:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Quant Time: Jun 25 09:10:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	852120	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2004674	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	2593548	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.55	95	1713615	8.04	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	80.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1282181	9.273	ppbv 98
3) Chlorodifluoromethane	3.00	51	975945	9.729	ppbv 99
4) Chloromethane	3.16	50	554398	9.689	ppbv 99
5) Vinyl Chloride	3.28	62	574820	10.827	ppbv 100
6) Bromomethane	3.50	94	369108	10.465	ppbv 94
7) Chloroethane	3.59	64	213829	10.184	ppbv 97
8) Dichlorotetrafluoroethane	3.21	85	1516327	10.261	ppbv 98
9) Propene	3.03	41	397224	10.583	ppbv 99
10) Heptane	8.22	43	1091266	11.502	ppbv 100
11) Trichlorofluoromethane	3.99	101	1911355	10.713	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1287279	10.676	ppbv 100
13) Ethanol	3.64	45	93959	7.694	ppbv 98
14) Bromoethene	3.77	108	495271	11.023	ppbv 99
15) Acetone	3.89	43	1211344	9.747	ppbv 100
16) 1,3-Butadiene	3.35	39	506180	10.701	ppbv 100
17) tert-Butyl alcohol	4.34	59	1168606	12.029	ppbv 100
18) 1,1-Dichloroethene	4.34	96	551848	10.835	ppbv 97
19) Isopropyl Alcohol	4.01	45	788652	11.108	ppbv 99
20) Methylene Chloride	4.39	84	477926	9.861	ppbv 97
21) Allyl Chloride	4.46	41	811358	11.493	ppbv 98
22) trans-1,2-Dichloroethene	4.95	96	578420	10.774	ppbv 94
23) Vinyl Acetate	5.14	43	1615698	11.185	ppbv 99
24) 1,1-Dichloroethane	5.07	63	1167730	10.393	ppbv 99
25) Ethyl Acetate	5.75	43	1991745	10.524	ppbv 100
26) Hexane	5.76	57	880737	10.221	ppbv 99
27) Carbon Disulfide	4.60	76	1392774	11.633	ppbv 100
28) Methyl tert-Butyl Ether	5.09	73	1601755	12.292	ppbv 100
29) Chloroform	5.83	83	1542477	10.451	ppbv 96
30) Cyclohexane	7.23	84	716905	11.774	ppbv 99
31) cis-1,2-Dichloroethene	5.62	61	877370	11.611	ppbv 95
32) 1,1,1-Trichloroethane	6.60	97	1619919	11.378	ppbv 99
34) 2-Butanone	5.31	43	1273495	11.261	ppbv 99
35) Carbon Tetrachloride	7.11	117	1717754	11.091	ppbv 98
36) Benzene	6.98	78	1744062	11.389	ppbv 98
37) 1,2-Dichloroethane	6.39	62	1171693	10.346	ppbv 99
38) Trichloroethene	7.94	130	760510	12.755	ppbv 98
39) 1,2-Dichloropropane	7.71	63	655475	11.091	ppbv 95
40) 1,4-Dioxane	7.93	88	259436	10.763	ppbv 76
41) Tetrahydrofuran	6.13	42	672879	11.722	ppbv 99
42) Bromodichloromethane	7.89	83	1654688	10.933	ppbv 98
43) Methyl Methacrylate	8.11	69	701976	12.257	ppbv 99

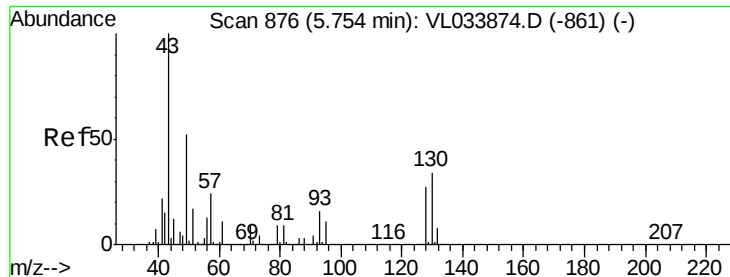
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
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 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.97	57	3011144	11.057	ppbv	99
45) t-1,3-Dichloropropene	9.39	75	983079	13.082	ppbv	100
46) cis-1,3-Dichloropropene	8.81	75	1119239	13.000	ppbv	98
47) 1,1,2-Trichloroethane	9.59	97	763318	10.834	ppbv	98
48) Dibromochloromethane	10.43	129	1436284	11.343	ppbv	99
49) Bromoform	13.17	173	1322870	11.835	ppbv	100
50) 4-Methyl-2-Pentanone	8.85	43	1945367	11.536	ppbv	100
51) 2-Hexanone	10.25	43	1570138	11.923	ppbv #	100
52) Tetrachloroethene	11.34	164	700225	12.995	ppbv	92
53) Toluene	9.92	91	2092664	12.349	ppbv	99
54) 1,2-Dibromoethane	10.73	107	1204565	11.342	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.25	131	988951	8.729	ppbv #	93
57) Chlorobenzene	12.27	112	1679579	8.647	ppbv	98
58) Ethyl Benzene	12.84	91	2920661	9.988	ppbv	99
59) m/p-Xylene	13.12	91	2507108	9.429	ppbv #	31
60) o-Xylene	13.82	91	2519069	9.175	ppbv	99
61) Styrene	13.66	104	1828247	10.290	ppbv	100
62) Isopropylbenzene	14.80	105	3400017	9.188	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.81	83	1789954	8.661	ppbv	99
64) n-propylbenzene	15.70	120	885725	9.347	ppbv	99
65) tert-Butylbenzene	16.88	119	3263118	9.531	ppbv	100
66) Benzyl Chloride	17.13	91	1813884	10.454	ppbv	100
67) sec-Butylbenzene	17.43	105	4445672	9.255	ppbv	100
69) p-Isopropyltoluene	17.79	119	3763158	9.416	ppbv	100
70) n-Butylbenzene	18.69	91	3857996	8.814	ppbv	100
71) 2-Chlorotoluene	15.59	91	2592864	9.512	ppbv	100
72) 4-Ethyltoluene	15.97	105	3058754	9.790	ppbv	99
73) 1,3,5-Trimethylbenzene	16.13	105	2919577	9.487	ppbv	98
74) 1,2,4-Trimethylbenzene	16.90	105	3153748	8.891	ppbv	97
75) 1,3-Dichlorobenzene	17.14	146	1828107	8.230	ppbv	100
76) 1,4-Dichlorobenzene	17.28	146	1788006	8.767	ppbv	99
77) 1,2-Dichlorobenzene	17.96	146	1727587	8.428	ppbv	100
78) Hexachloro-1,3-Butadiene	23.52	225	1197766	7.481	ppbv	99
79) Naphthalene	22.38	128	2225497	7.850	ppbv	98
80) Naphthalene, 2-methyl-	25.09	142	805337	7.119	ppbv #	95
81) 1,2,4-Trichlorobenzene	22.10	180	1321904	7.385	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 873

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleId :

VSTDCCC010EC

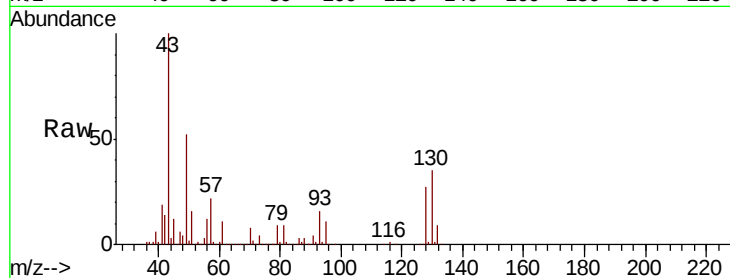
Tot Ion: 49 Resp: 852120

Ion Ratio Lower Upper

49 100

128 51.9 25.5 76.5

130 66.0 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

600000

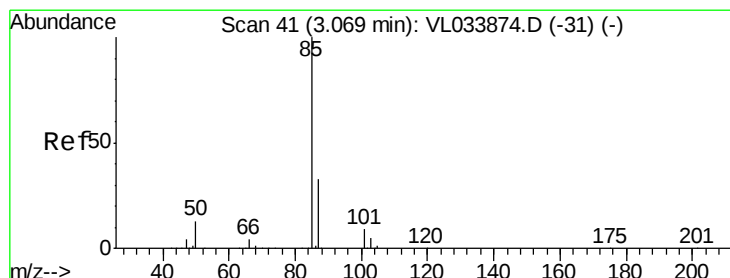
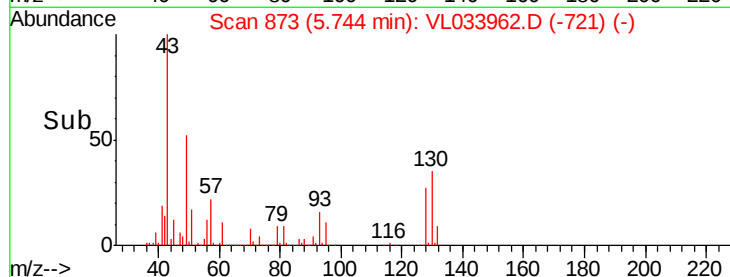
400000

200000

0

5.74

Time-->



#2

Dichlorodifluoromethane

Concen: 9.273 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL033962.D

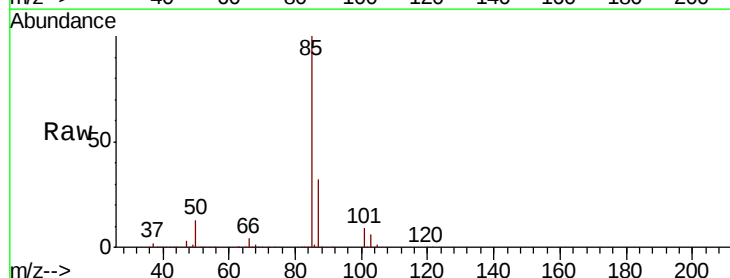
Acq: 25 Jun 2019 8:31

Tgt Ion: 85 Resp: 1282181

Ion Ratio Lower Upper

85 100

87 32.4 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1200000

1000000

800000

600000

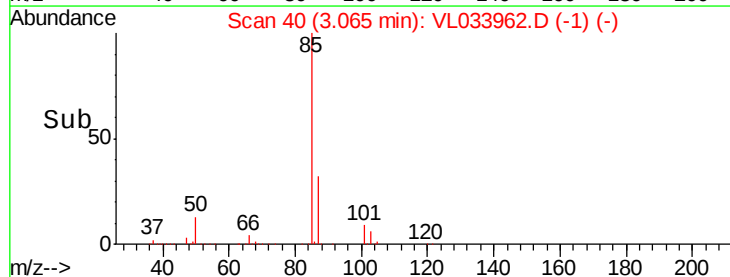
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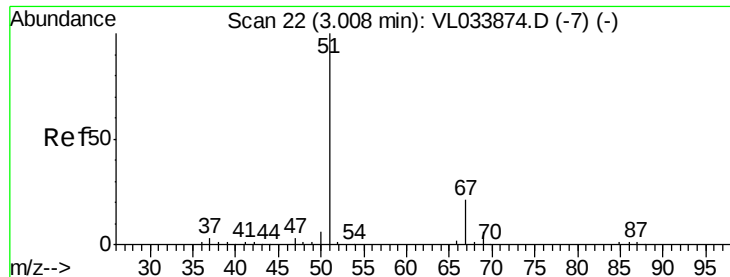
200000

0

3.07

Time-->





#3

Chlorodifluoromethane

Concen: 9.729 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

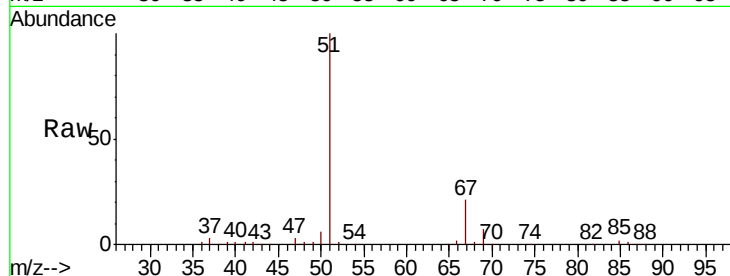
VSTDCCC010EC

Tot Ion: 51 Resp: 975945

Ion Ratio Lower Upper

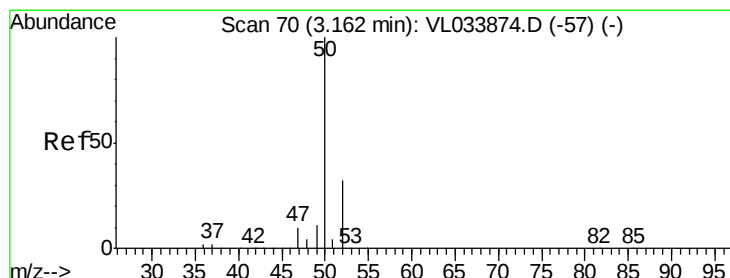
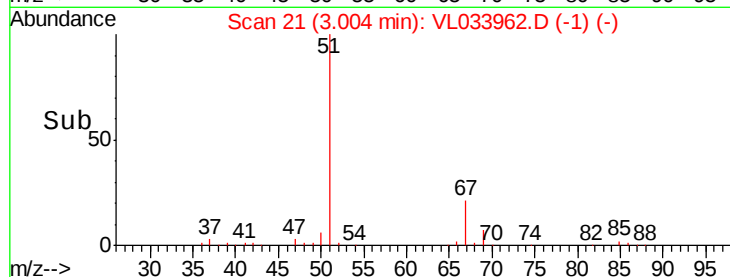
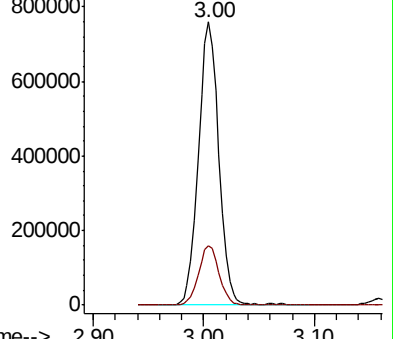
51 100

67 21.0 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.689 ppbv

RT: 3.16 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL033962.D

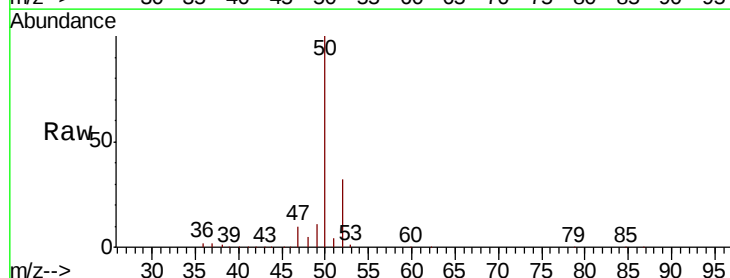
Acq: 25 Jun 2019 8:31

Tgt Ion: 50 Resp: 554398

Ion Ratio Lower Upper

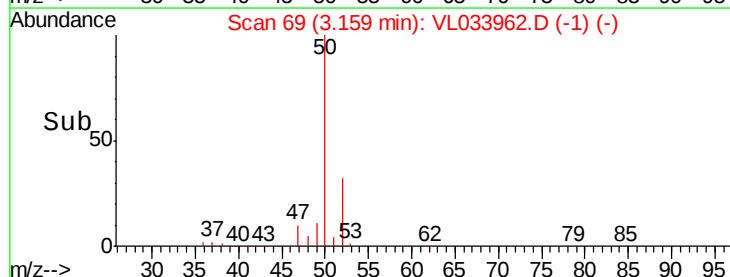
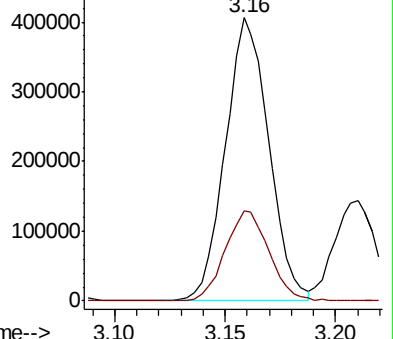
50 100

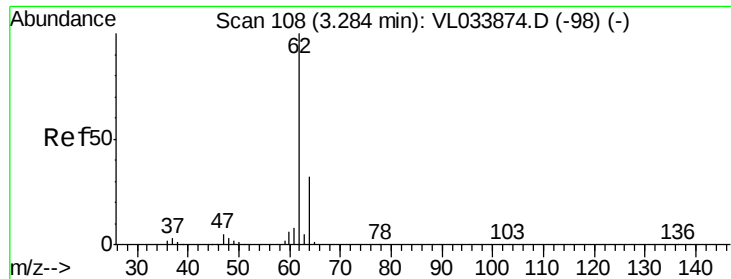
52 32.0 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.827 ppbv

RT: 3.28 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

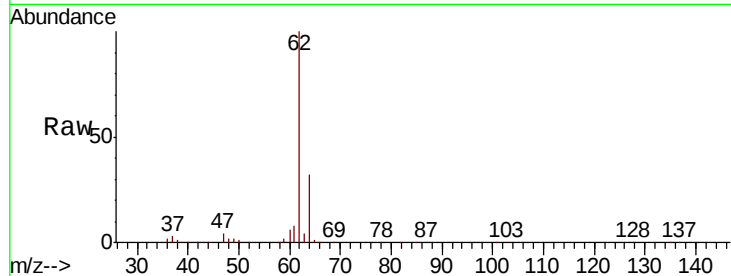
VSTDCCC010EC

Tot Ion: 62 Resp: 574820

Ion Ratio Lower Upper

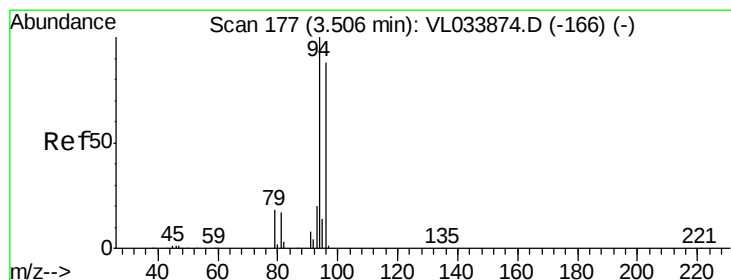
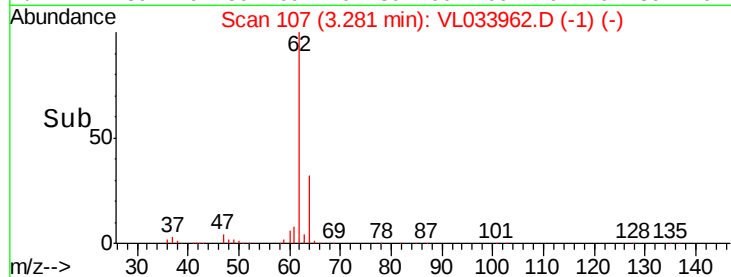
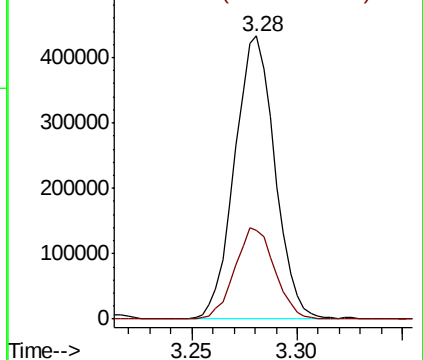
62 100

64 31.6 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.465 ppbv

RT: 3.50 min Scan# 175

Delta R.T. -0.01 min

Lab File: VL033962.D

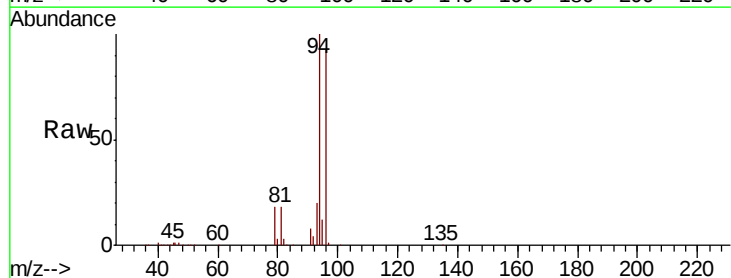
Acq: 25 Jun 2019 8:31

Tgt Ion: 94 Resp: 369108

Ion Ratio Lower Upper

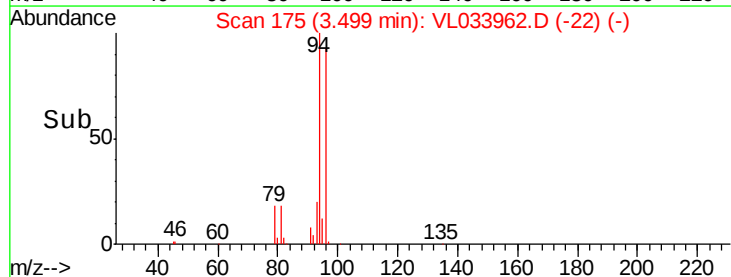
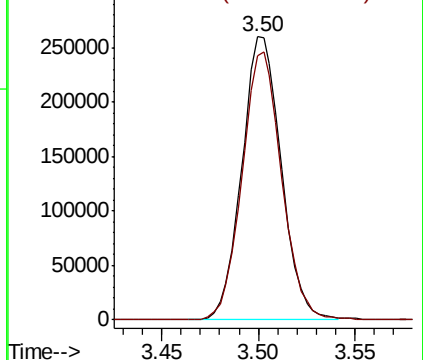
94 100

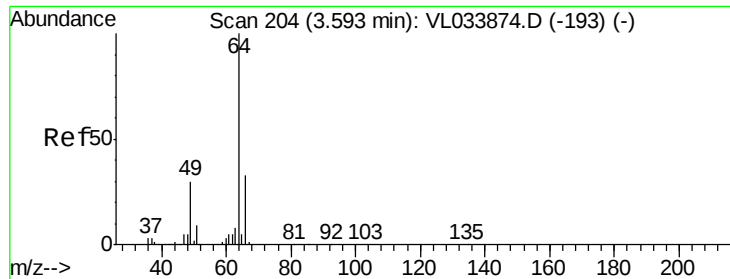
96 93.4 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.184 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

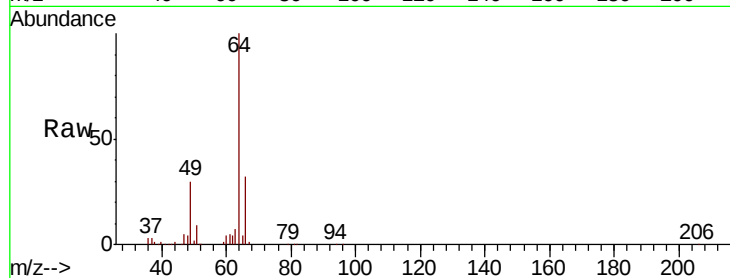
VSTDCCC010EC

Tot Ion: 64 Resp: 213829

Ion Ratio Lower Upper

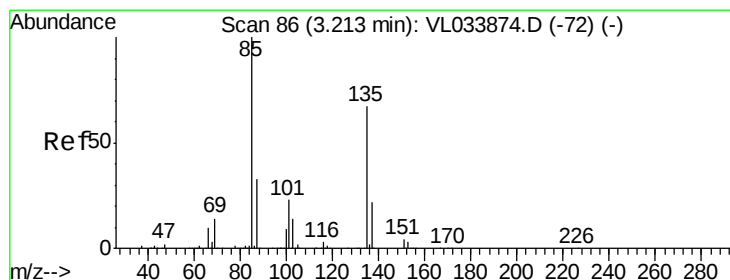
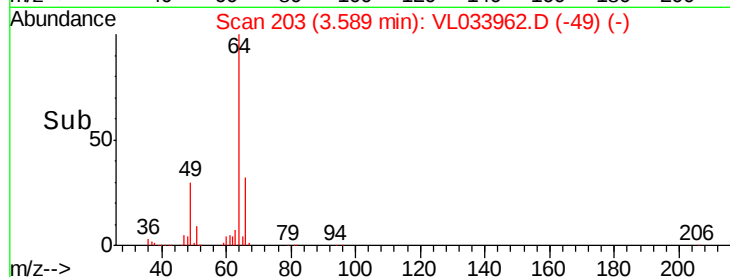
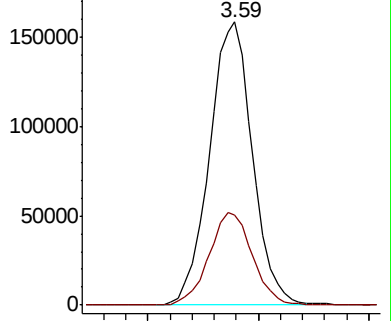
64 100

66 31.9 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 10.261 ppbv

RT: 3.21 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL033962.D

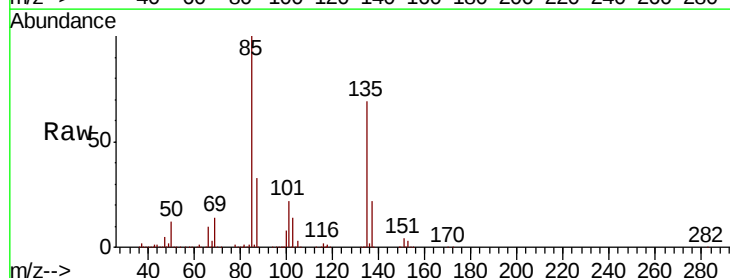
Acq: 25 Jun 2019 8:31

Tgt Ion: 85 Resp: 1516327

Ion Ratio Lower Upper

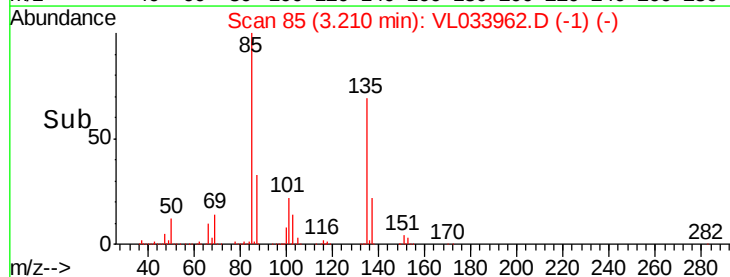
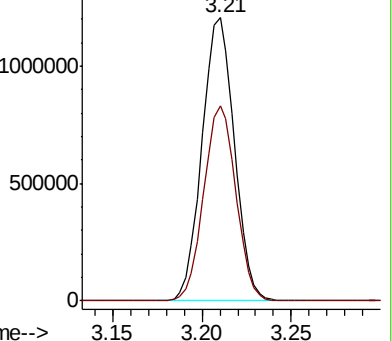
85 100

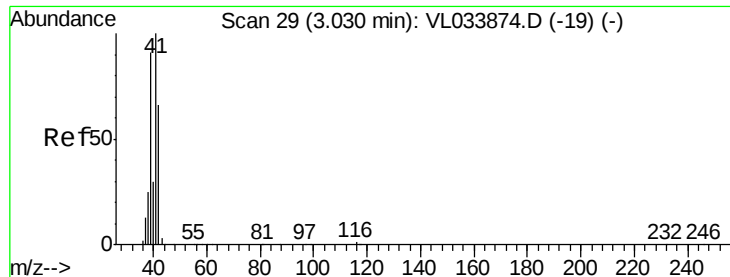
135 68.7 53.7 80.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.583 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

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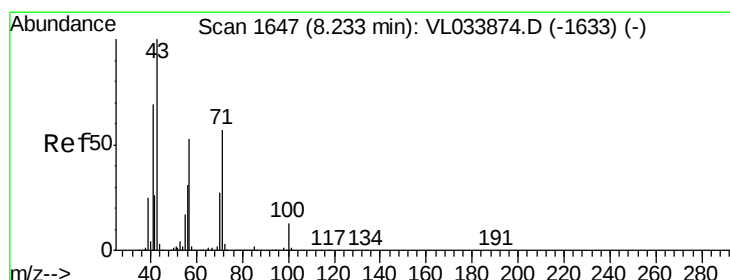
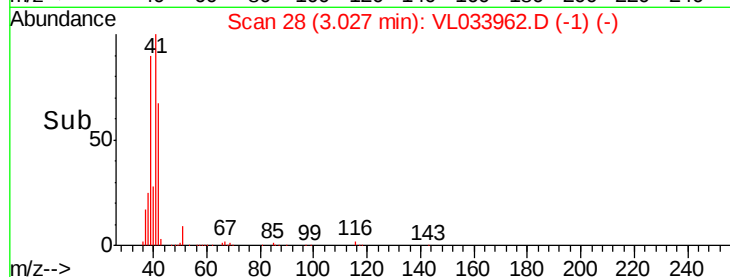
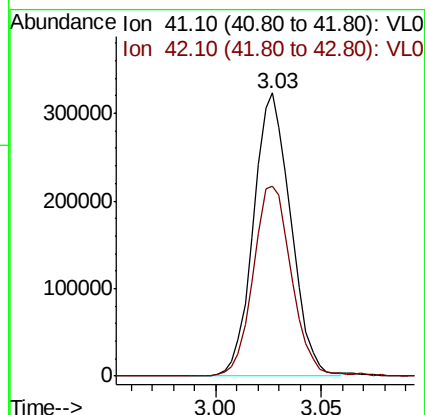
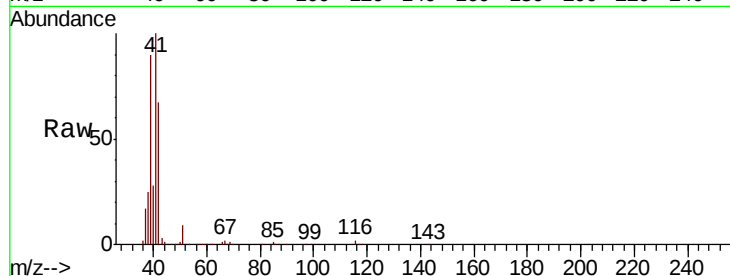
VSTDCCC010EC

Tot Ion: 41 Resp: 397224

Ion Ratio Lower Upper

41 100

42 69.8 56.3 84.5



#10

Heptane

Concen: 11.502 ppbv

RT: 8.22 min Scan# 1643

Delta R.T. -0.01 min

Lab File: VL033962.D

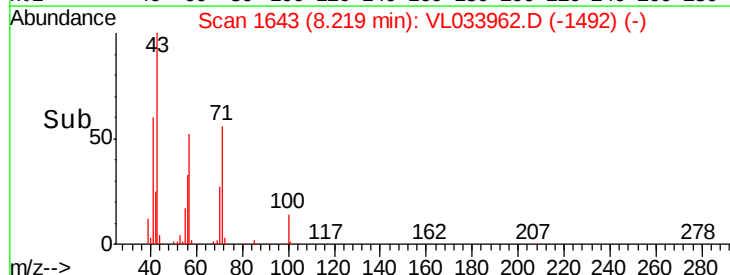
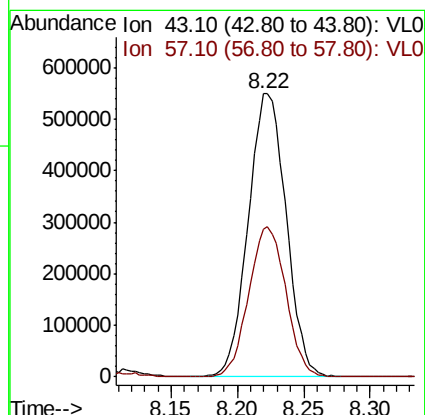
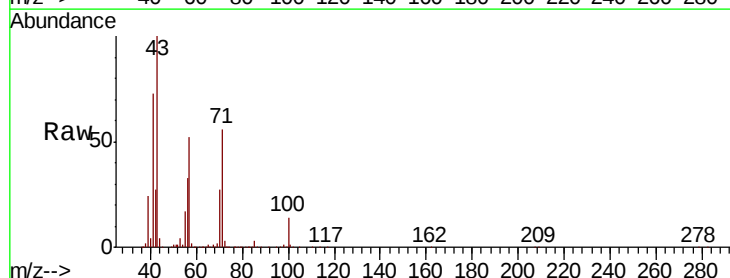
Acq: 25 Jun 2019 8:31

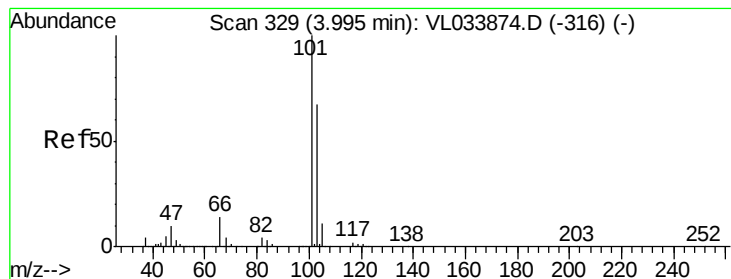
Tgt Ion: 43 Resp: 1091266

Ion Ratio Lower Upper

43 100

57 52.3 41.7 62.5





#11

Trichlorofluoromethane

Concen: 10.713 ppbv

RT: 3.99 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

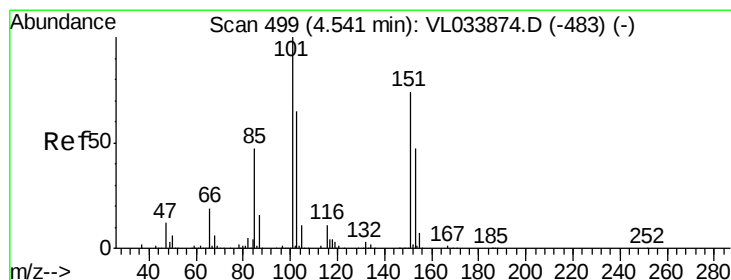
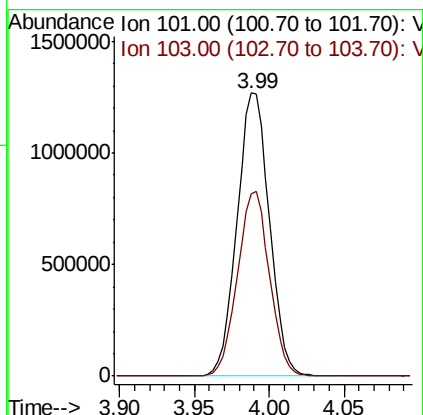
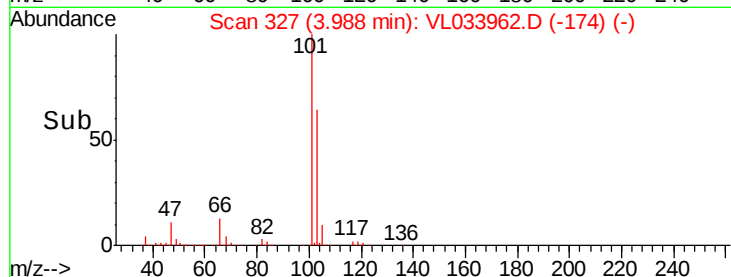
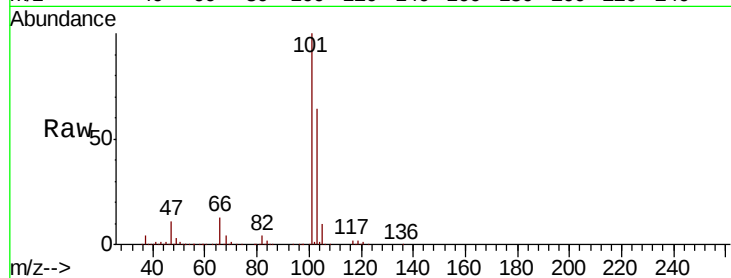
VSTDCCC010EC

Tot Ion:101 Resp: 1911355

Ion Ratio Lower Upper

101 100

103 64.3 53.6 80.4



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.676 ppbv

RT: 4.53 min Scan# 497

Delta R.T. -0.01 min

Lab File: VL033962.D

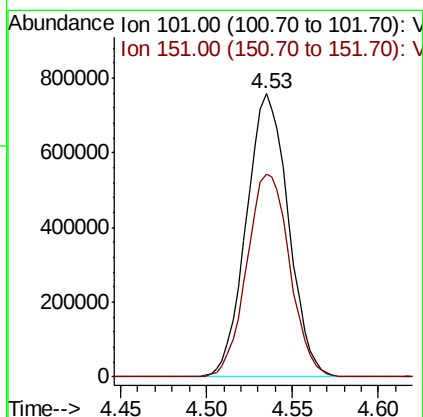
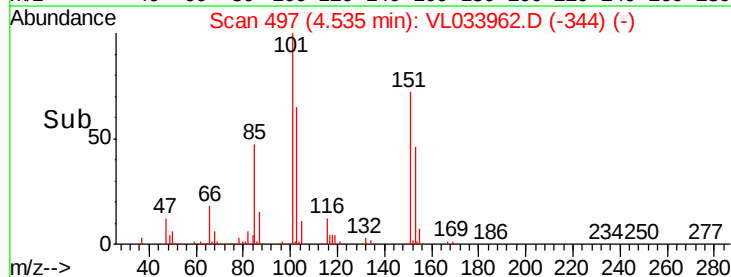
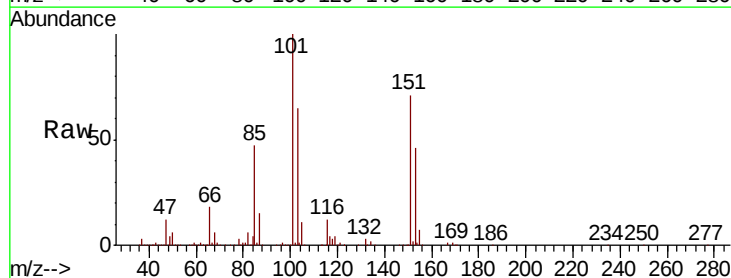
Acq: 25 Jun 2019 8:31

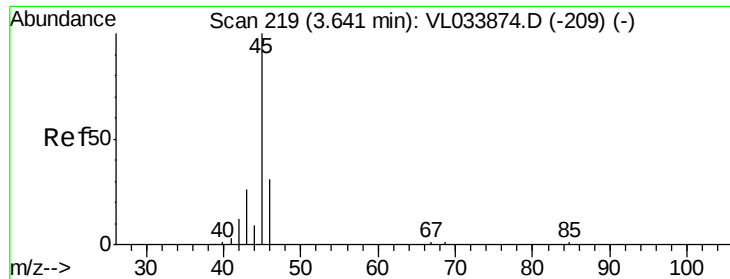
Tgt Ion:101 Resp: 1287279

Ion Ratio Lower Upper

101 100

151 73.2 58.6 87.8

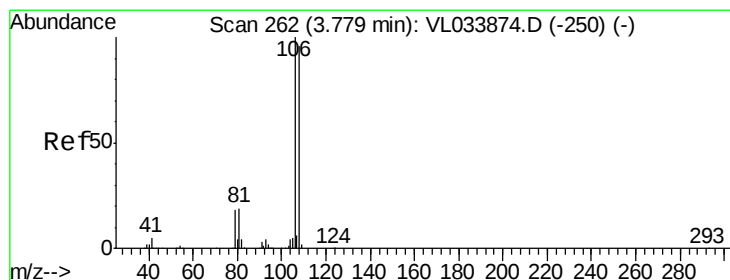
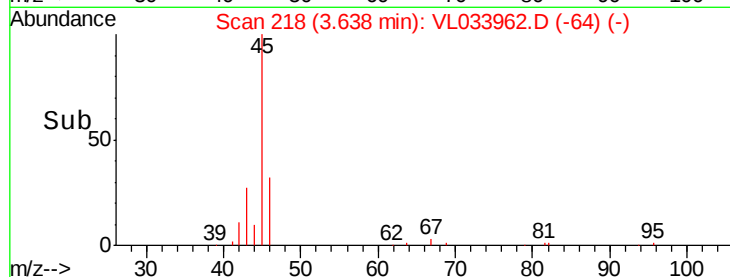
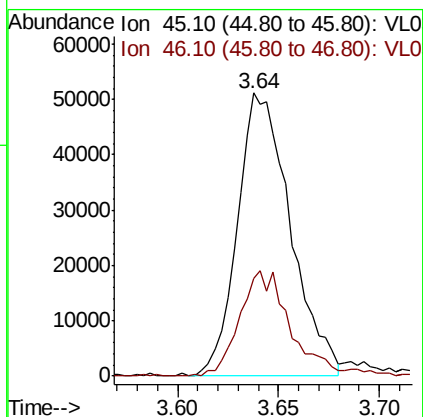
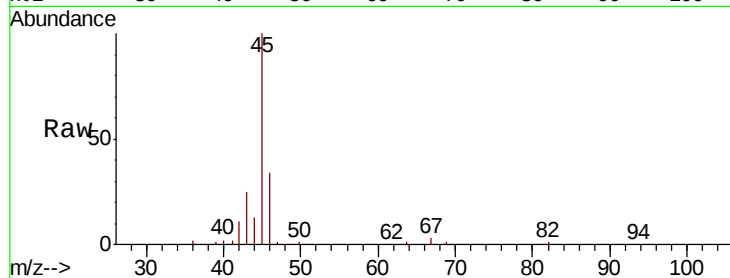




#13
Ethanol
Concen: 7.694 ppbv
RT: 3.64 min Scan# 218
Delta R.T. -0.00 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

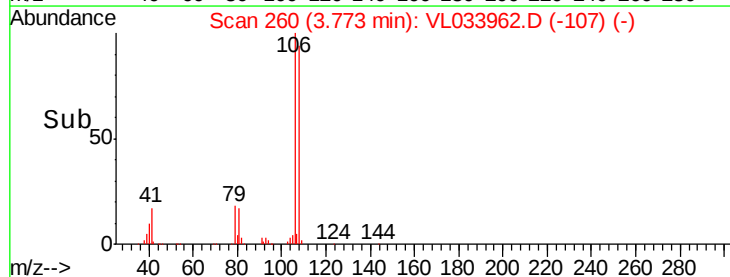
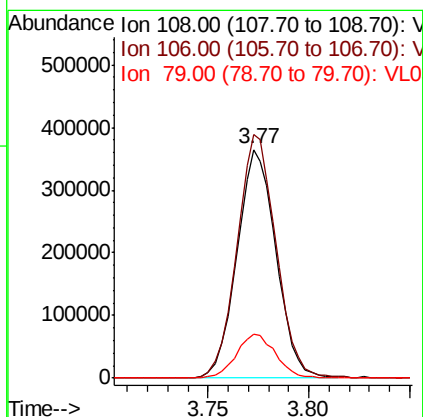
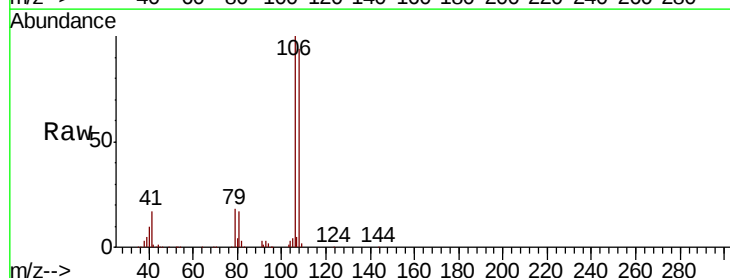
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

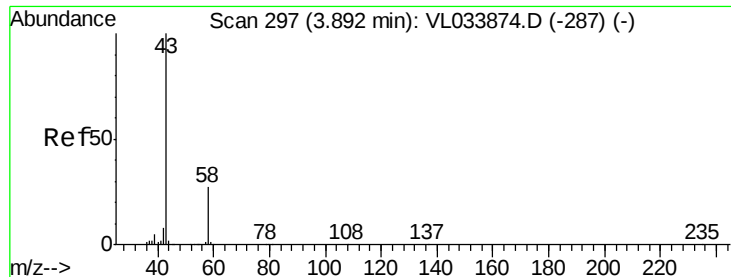
Tot Ion: 45 Resp: 93959
Ion Ratio Lower Upper
45 100
46 36.9 15.3 61.1



#14
Bromoethene
Concen: 11.023 ppbv
RT: 3.77 min Scan# 260
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion: 108 Resp: 495271
Ion Ratio Lower Upper
108 100
106 106.7 84.9 127.3
79 19.6 15.4 23.0





#15

Acetone

Concen: 9.747 ppbv

RT: 3.89 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

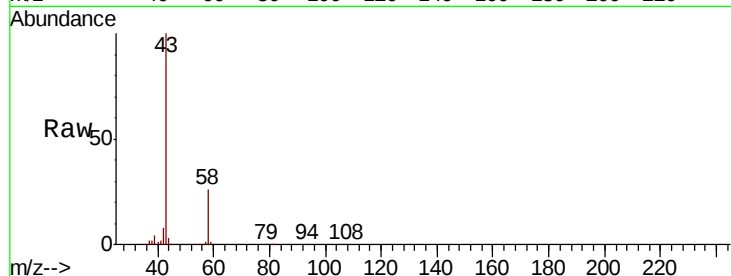
VSTDCCC010EC

Tot Ion: 43 Resp: 1211344

Ion Ratio Lower Upper

43 100

58 26.6 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.89

800000

600000

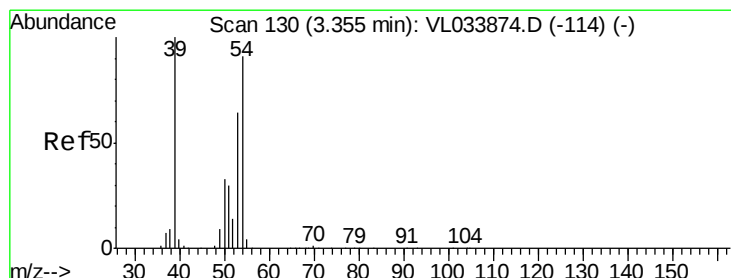
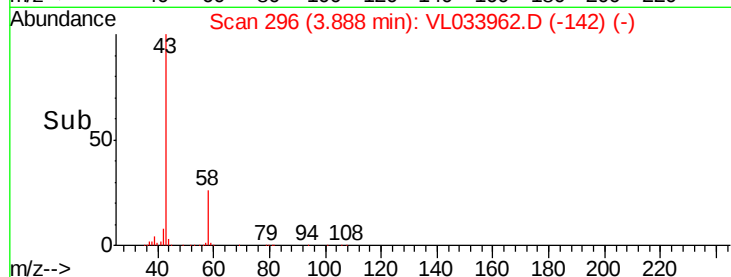
400000

200000

0

Time-->

3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 10.701 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.00 min

Lab File: VL033962.D

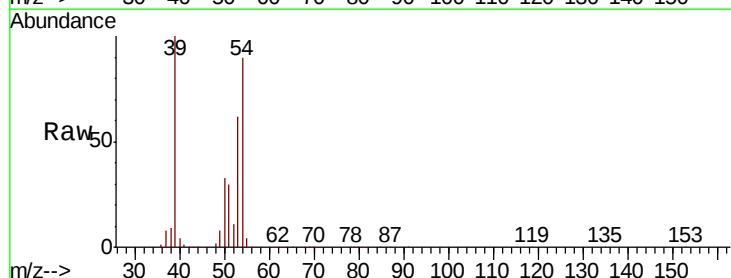
Acq: 25 Jun 2019 8:31

Tgt Ion: 39 Resp: 506180

Ion Ratio Lower Upper

39 100

54 85.4 68.6 103.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

400000

300000

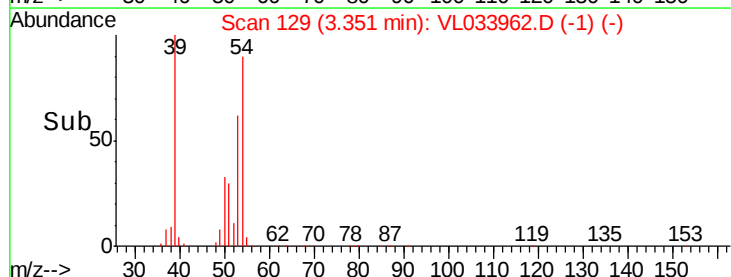
200000

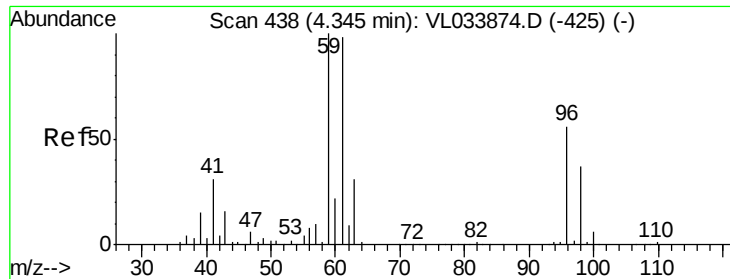
100000

0

Time-->

3.30 3.35 3.40





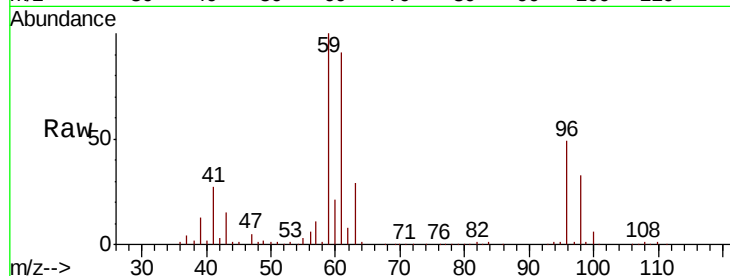
#17

tert-Butyl alcohol
 Concen: 12.029 ppbv
 RT: 4.34 min Scan# 437
 Delta R.T. -0.00 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

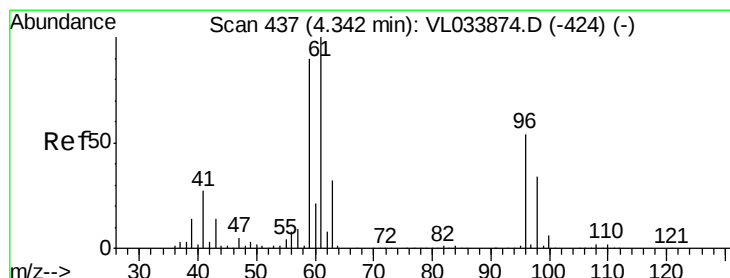
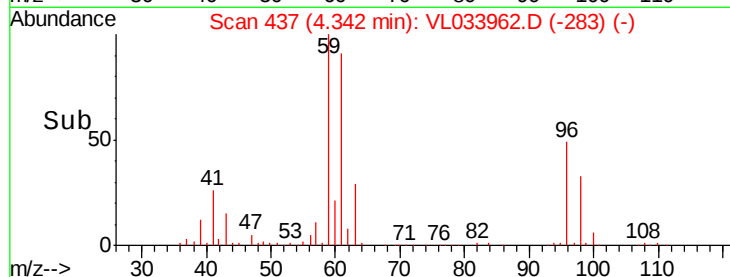
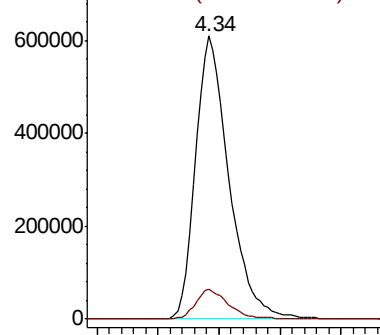
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1168606

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.4	12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0
 Ion 57.10 (56.80 to 57.80): VL0

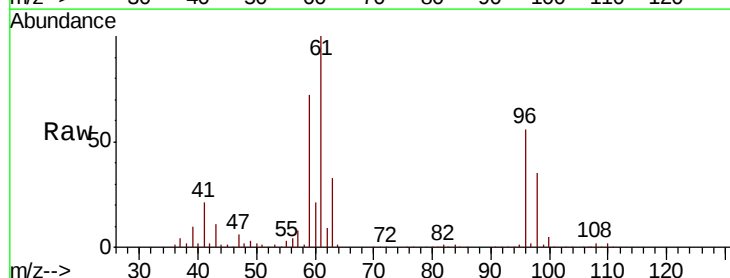


#18

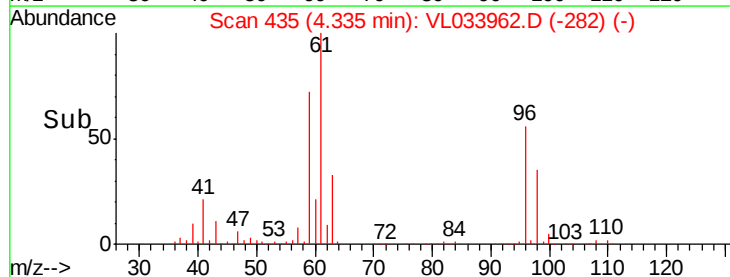
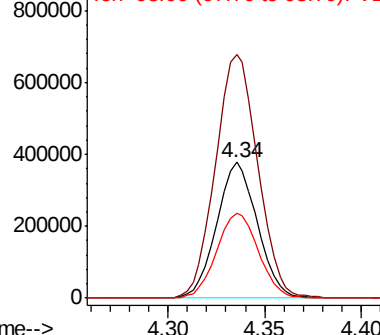
1,1-Dichloroethene
 Concen: 10.835 ppbv
 RT: 4.34 min Scan# 435
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

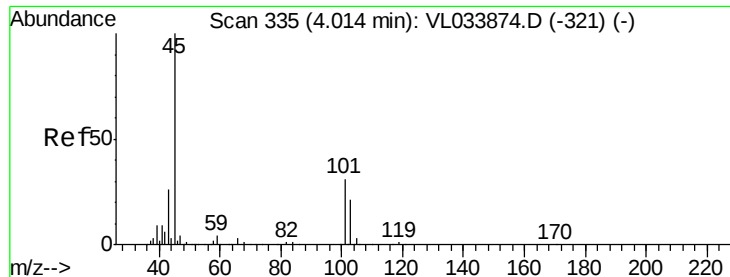
Tgt Ion: 96 Resp: 551848

Ion	Ratio	Lower	Upper
96	100		
61	179.3	147.0	220.6
98	62.2	49.4	74.0



Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0



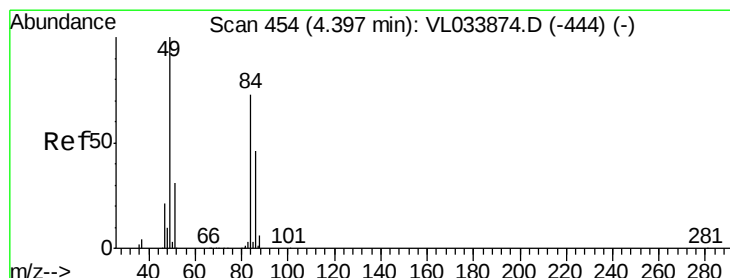
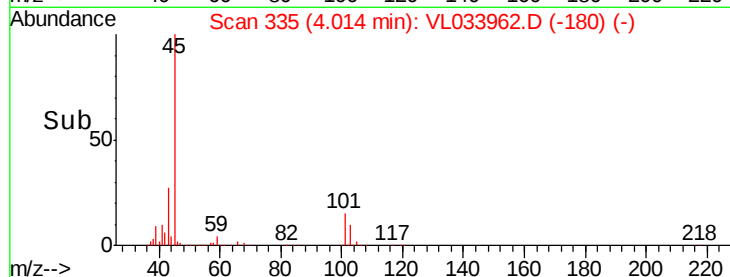
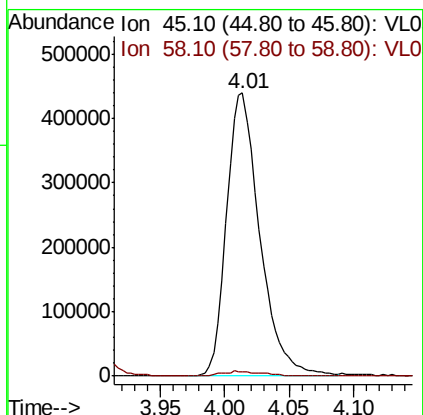
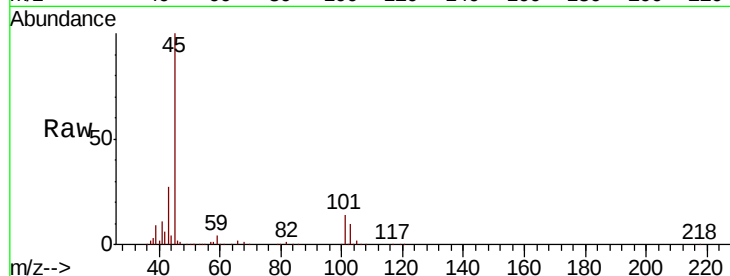


#19

Isopropyl Alcohol
 Concen: 11.108 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. -0.00 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

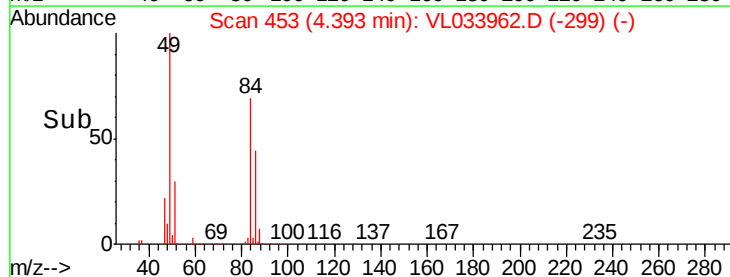
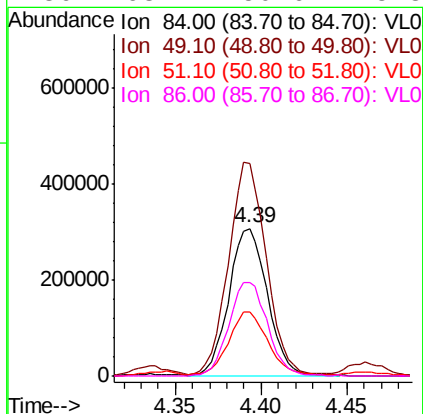
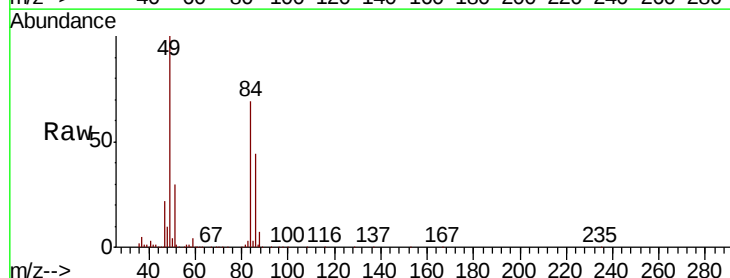
Tot Ion: 45 Resp: 788652
 Ion Ratio Lower Upper
 45 100
 58 2.5 1.8 2.6

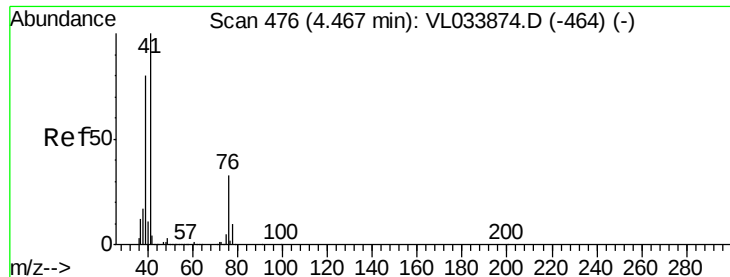


#20

Methylene Chloride
 Concen: 9.861 ppbv
 RT: 4.39 min Scan# 453
 Delta R.T. -0.00 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion: 84 Resp: 477926
 Ion Ratio Lower Upper
 84 100
 49 143.6 110.0 165.0
 51 43.0 34.6 51.8
 86 63.1 50.6 75.8

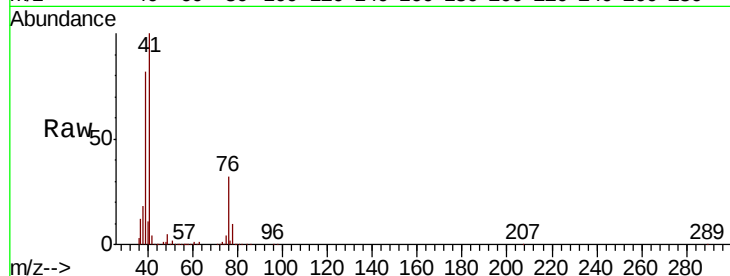




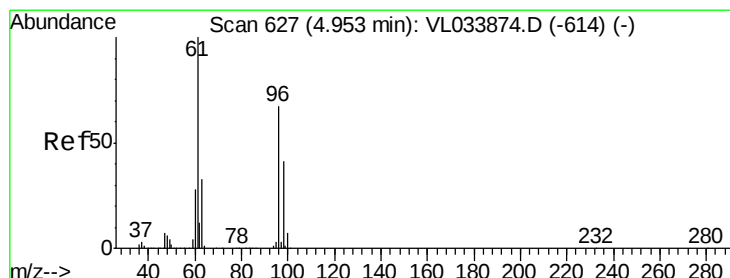
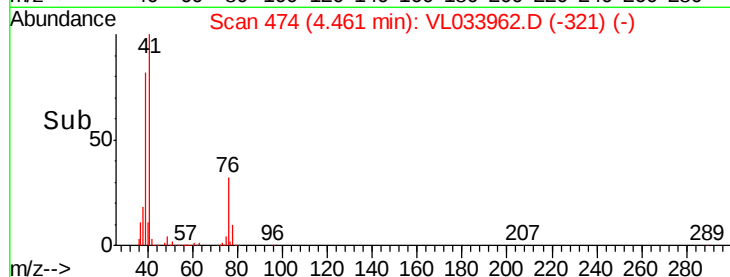
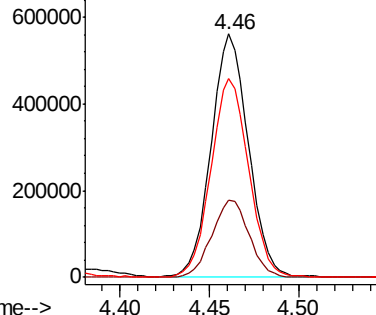
#21
Allvl Chloride
Concen: 11.493 ppbv
RT: 4.46 min Scan# 474
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 41 Resp: 811358
Ion Ratio Lower Upper
41 100
76 32.4 26.6 39.8
39 83.4 65.2 97.8

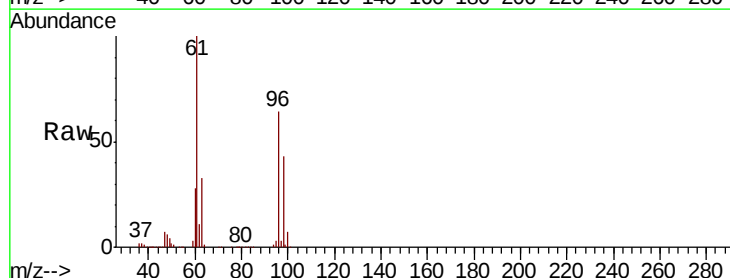


Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

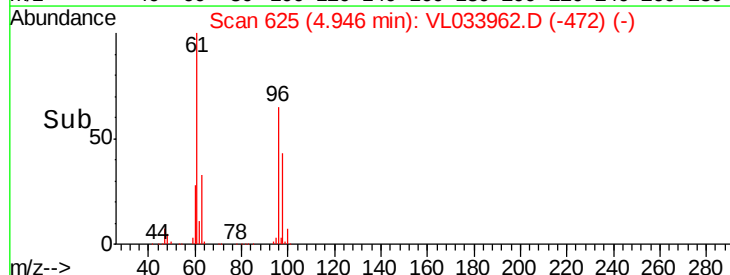
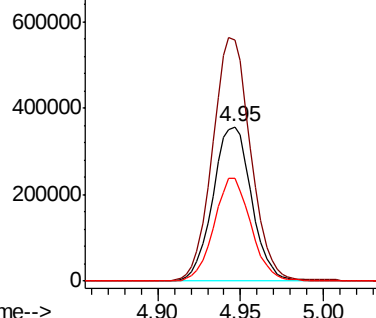


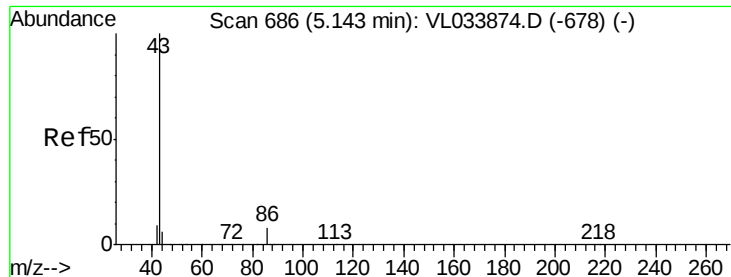
#22
trans-1,2-Dichloroethene
Concen: 10.774 ppbv
RT: 4.95 min Scan# 625
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion: 96 Resp: 578420
Ion Ratio Lower Upper
96 100
61 156.2 119.0 178.6
98 66.5 48.3 72.5



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 11.185 ppbv

RT: 5.14 min Scan# 684

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

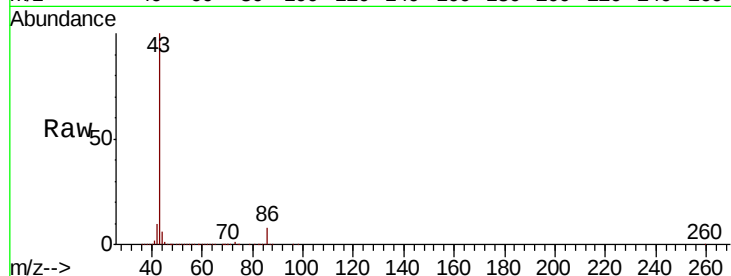
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1615698

Ion	Ratio	Lower	Upper
43	100		
86	7.9	5.8	8.8
42	10.3	7.8	11.8
44	5.6	4.2	6.4

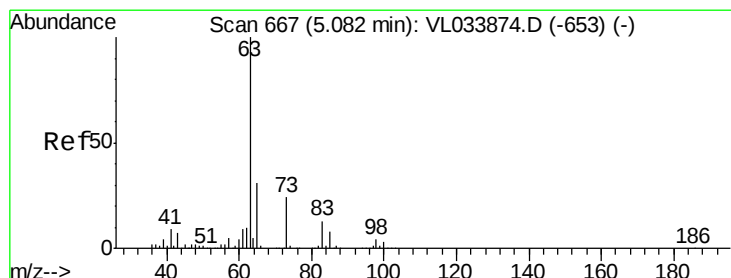
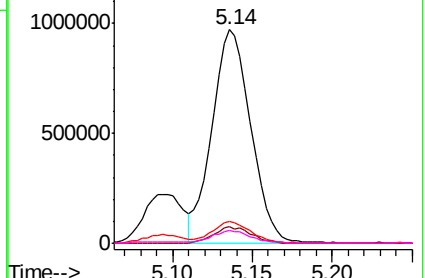
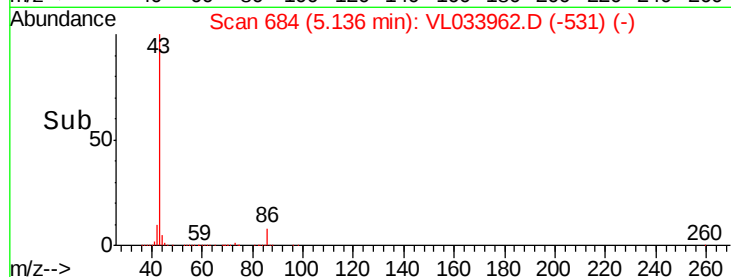


Abundance Ion 43.10 (42.80 to 43.80): VL0

1500000 Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.393 ppbv

RT: 5.07 min Scan# 664

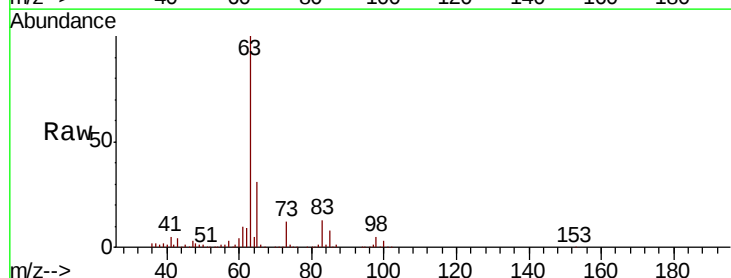
Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Tgt Ion: 63 Resp: 1167730

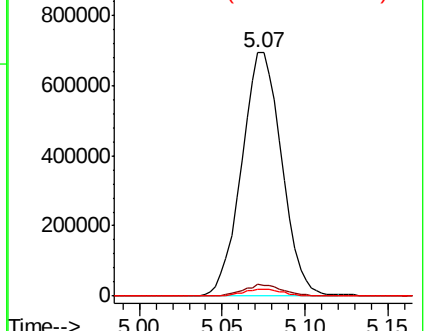
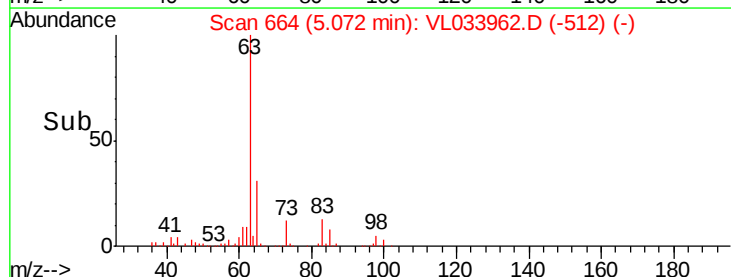
Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.2	6.6
100	2.8	1.3	3.8

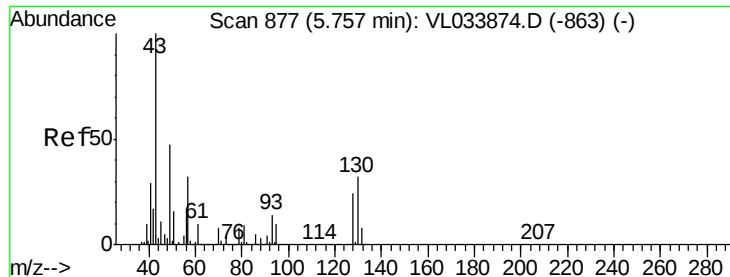


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.524 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1991745

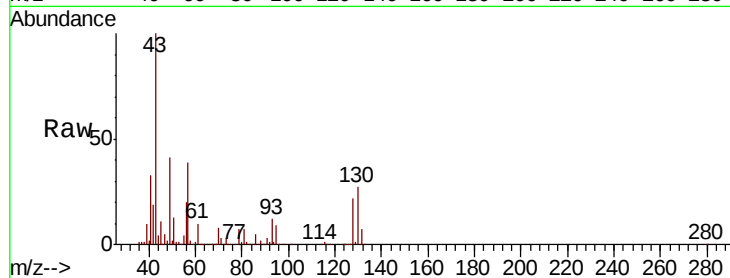
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.9	11.9
61	9.5	7.8	11.6
70	7.3	5.8	8.6

43 100

45 9.9 7.9 11.9

61 9.5 7.8 11.6

70 7.3 5.8 8.6



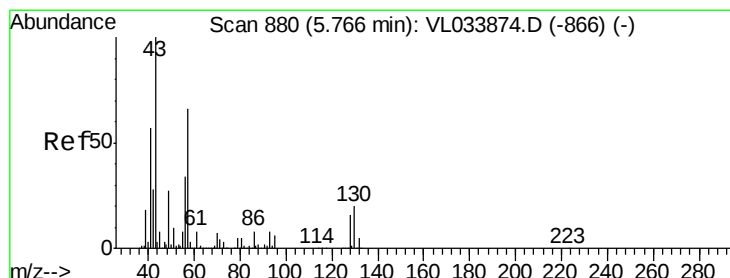
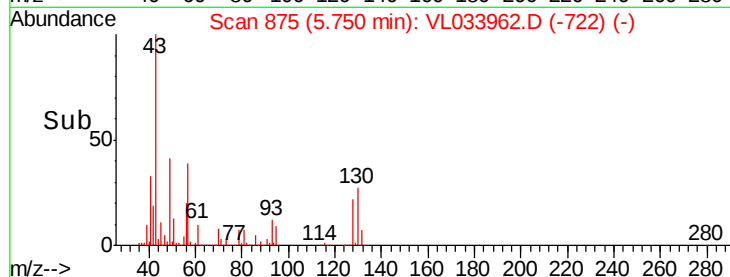
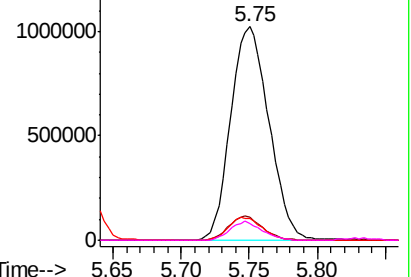
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.221 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Tgt Ion: 57 Resp: 880737

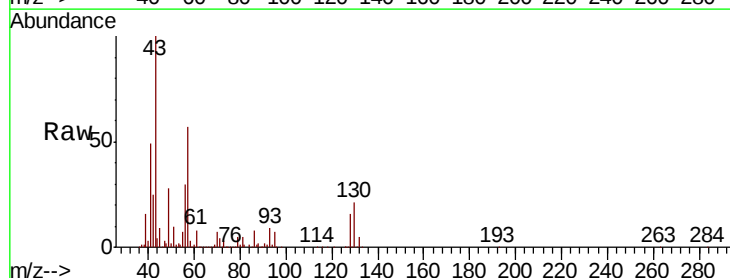
Ion	Ratio	Lower	Upper
57	100		
41	89.0	71.4	107.2
43	227.3	183.7	275.5
56	53.2	42.7	64.1

57 100

41 89.0 71.4 107.2

43 227.3 183.7 275.5

56 53.2 42.7 64.1



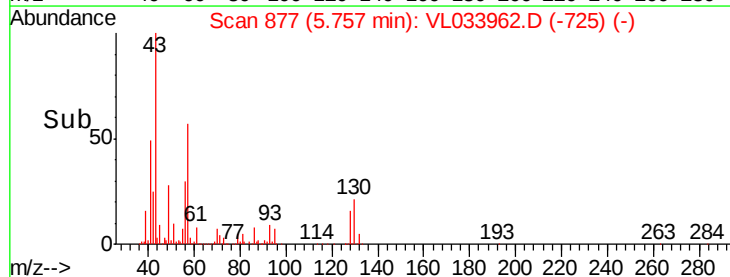
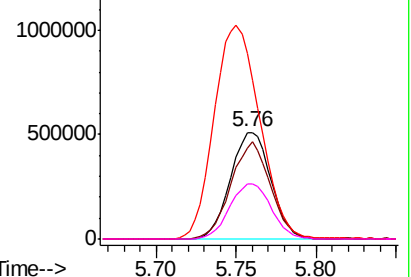
Abundance

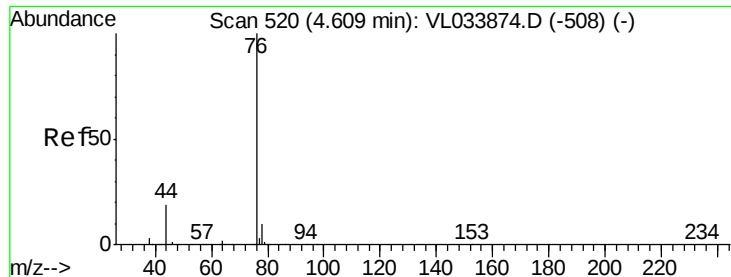
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.633 ppbv

RT: 4.60 min Scan# 518

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

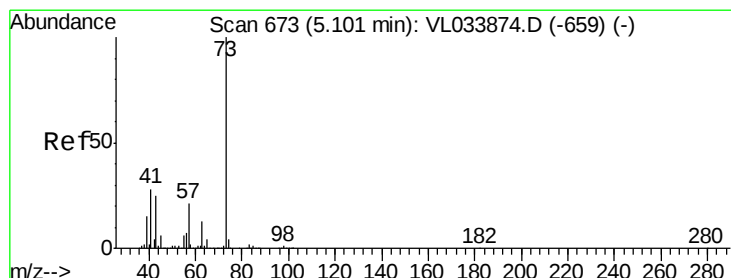
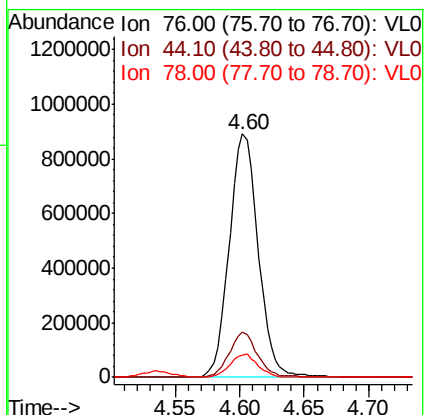
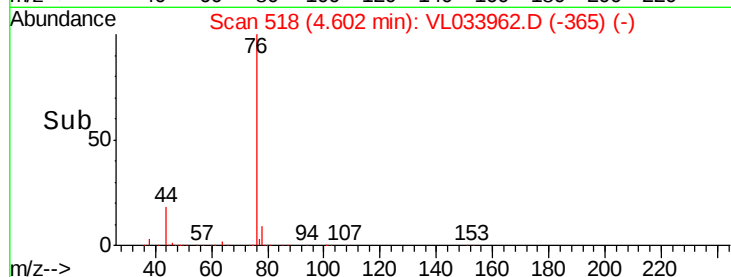
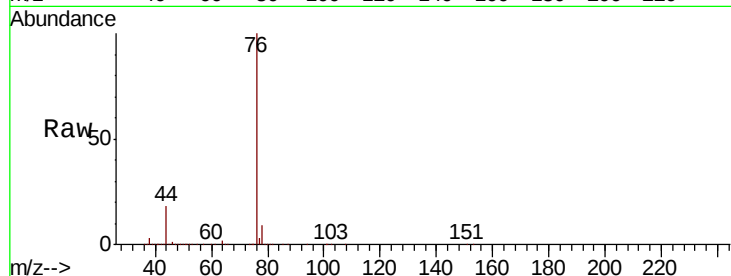
Tot Ion: 76 Resp: 1392774

Ion Ratio Lower Upper

76 100

44 18.0 14.4 21.6

78 9.2 7.5 11.3



#28

Methyl tert-Butyl Ether

Concen: 12.292 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.01 min

Lab File: VL033962.D

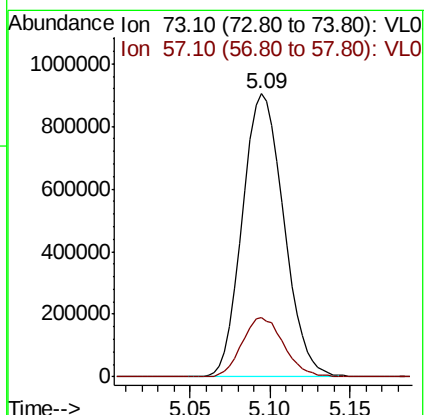
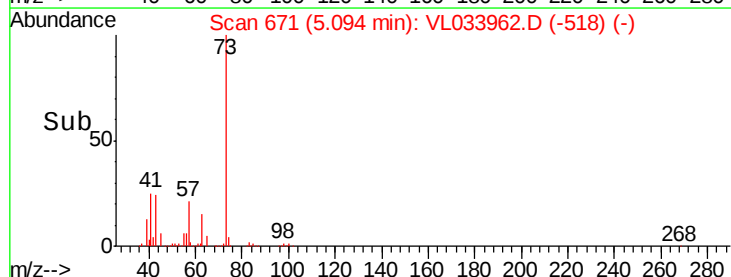
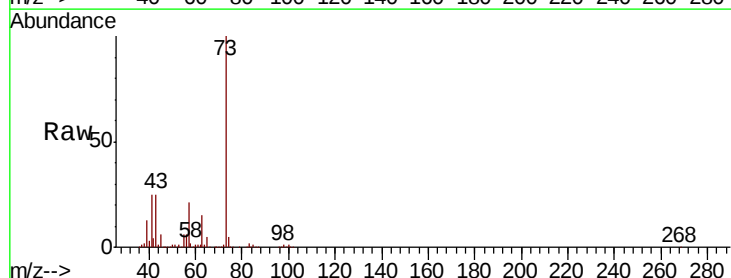
Acq: 25 Jun 2019 8:31

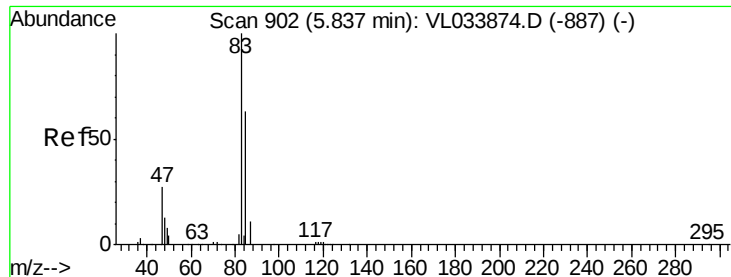
Tgt Ion: 73 Resp: 1601755

Ion Ratio Lower Upper

73 100

57 21.3 17.2 25.8

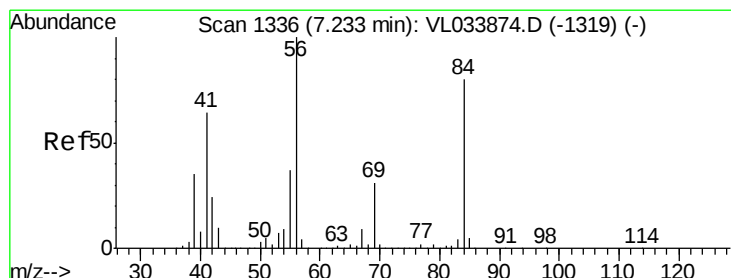
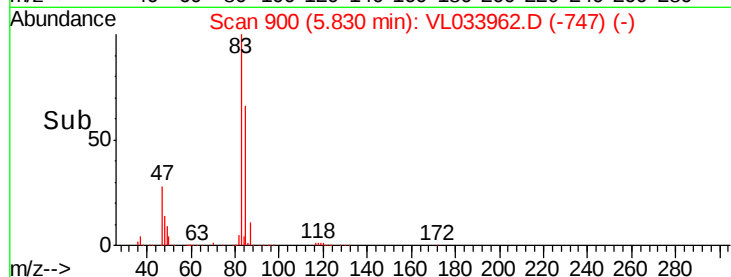
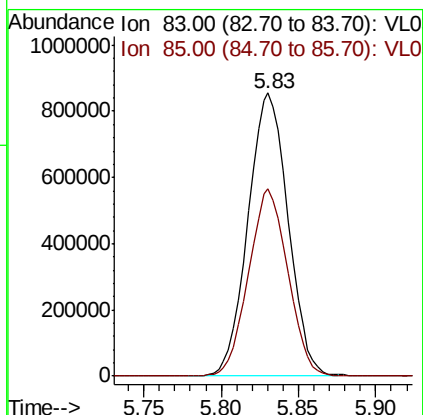
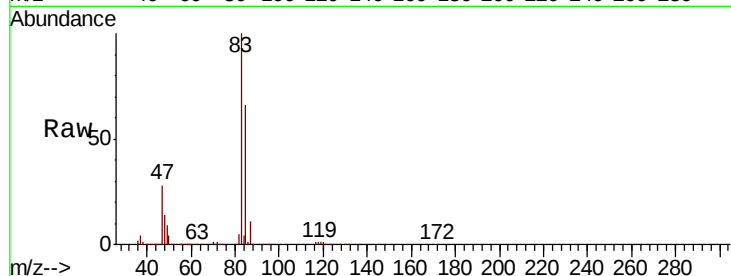




#29
Chloroform
Concen: 10.451 ppbv
RT: 5.83 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

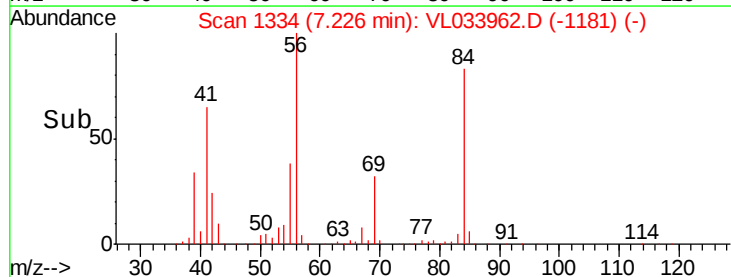
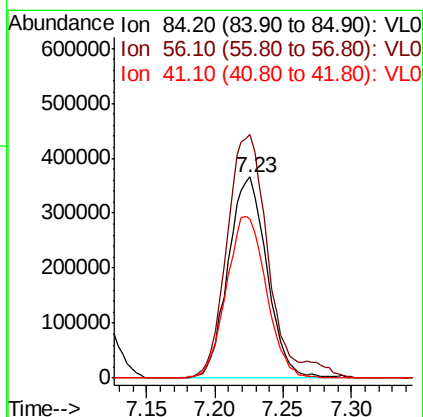
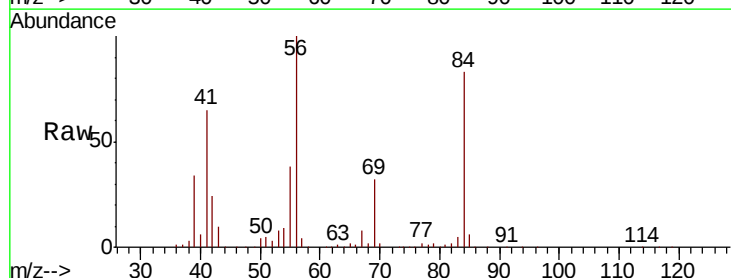
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

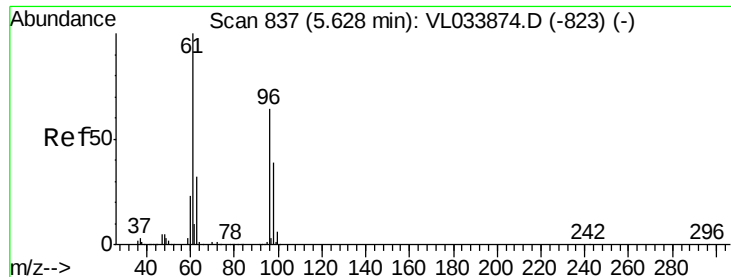
Tot Ion: 83 Resp: 1542477
Ion Ratio Lower Upper
83 100
85 66.1 50.5 75.7



#30
Cyclohexane
Concen: 11.774 ppbv
RT: 7.23 min Scan# 1334
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion: 84 Resp: 716905
Ion Ratio Lower Upper
84 100
56 131.6 105.8 158.8
41 83.5 65.7 98.5





#31

cis-1,2-Dichloroethene

Concen: 11.611 ppbv

RT: 5.62 min Scan# 835

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

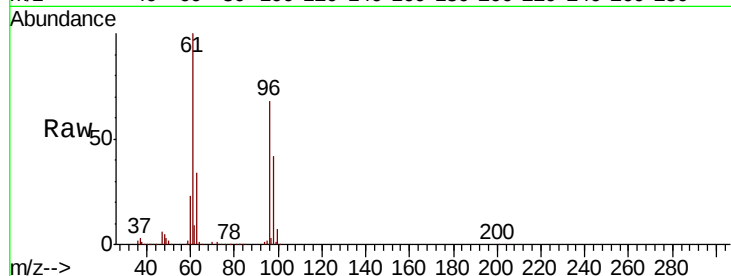
Tot Ion: 61 Resp: 877370

Ion Ratio Lower Upper

61 100

96 68.3 50.9 76.3

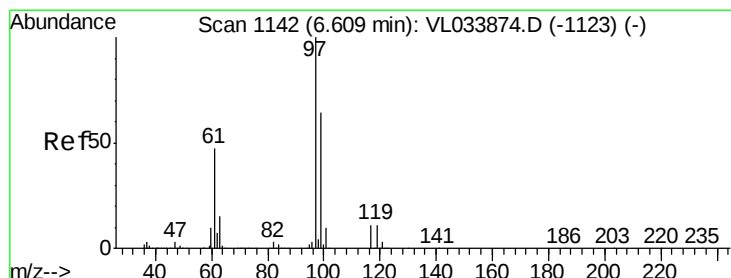
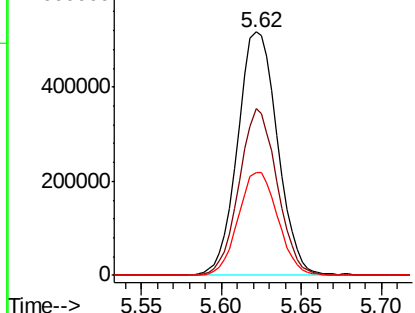
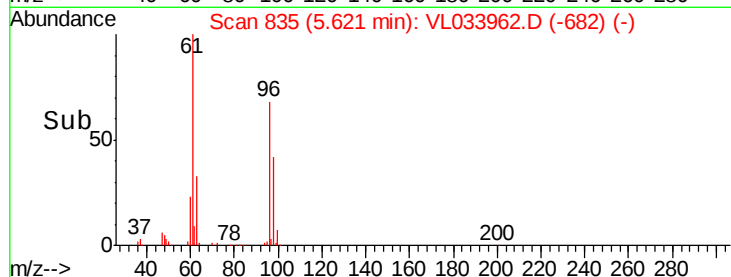
98 42.1 31.4 47.2



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 11.378 ppbv

RT: 6.60 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

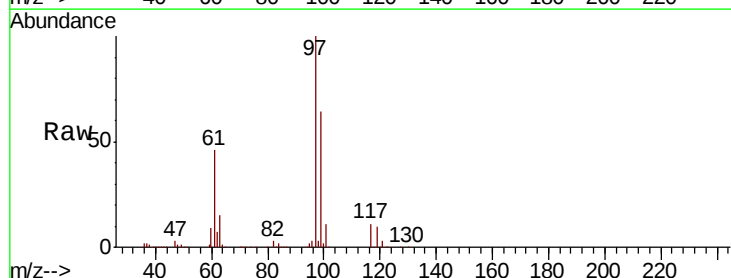
Tgt Ion: 97 Resp: 1619919

Ion Ratio Lower Upper

97 100

99 64.4 51.7 77.5

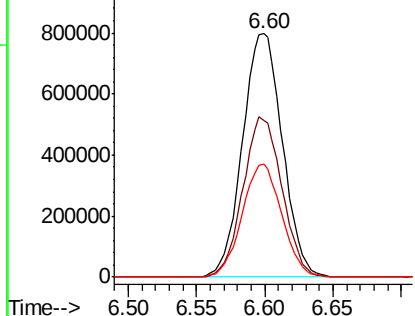
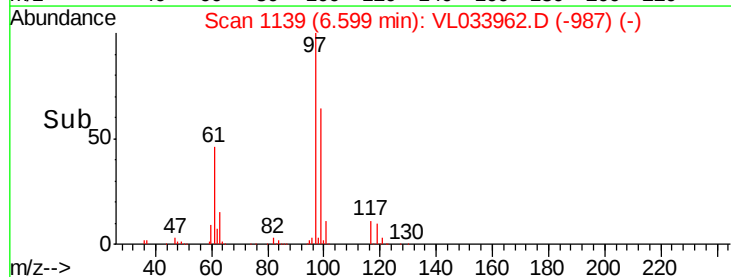
61 46.3 37.7 56.5

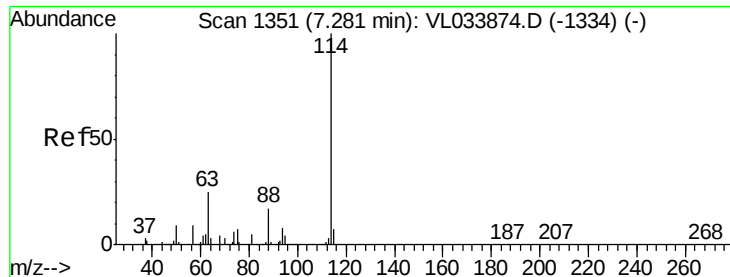


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

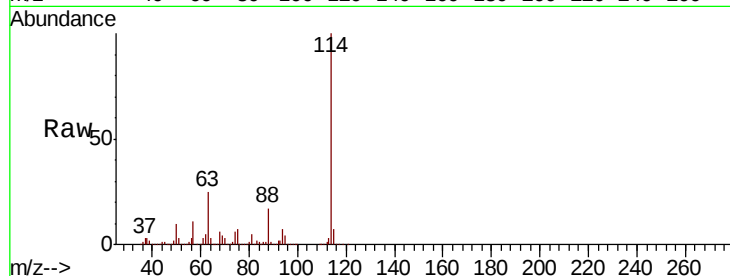




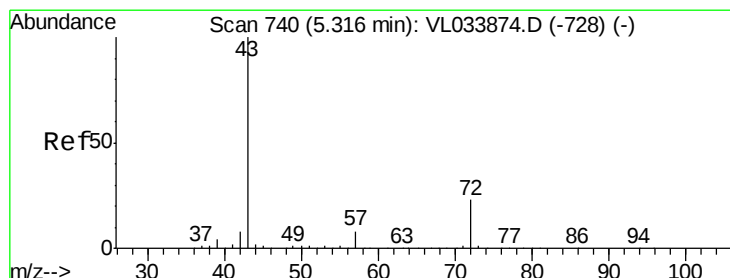
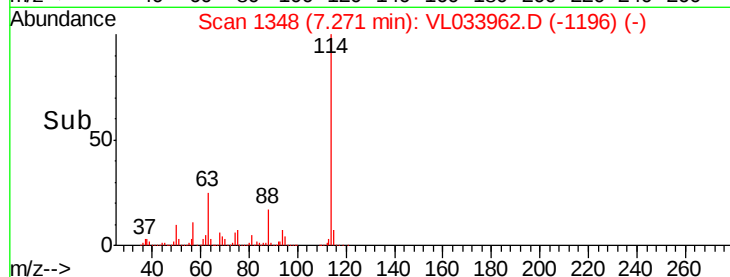
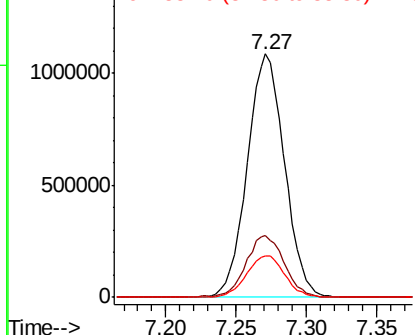
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.27 min Scan# 1348
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 2004674
 Ion Ratio Lower Upper
 114 100
 63 26.4 21.1 31.7
 88 17.5 14.2 21.4

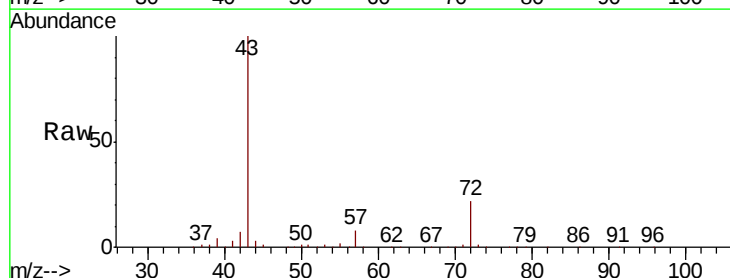


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

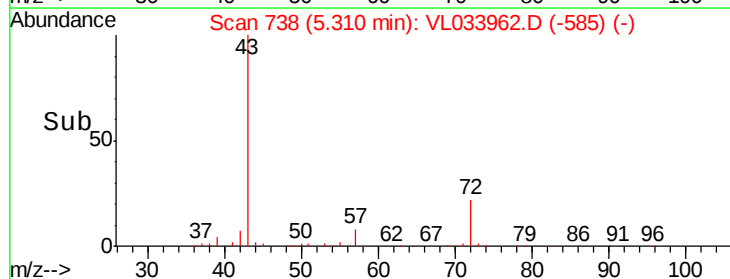
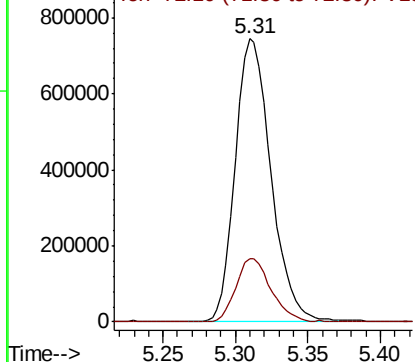


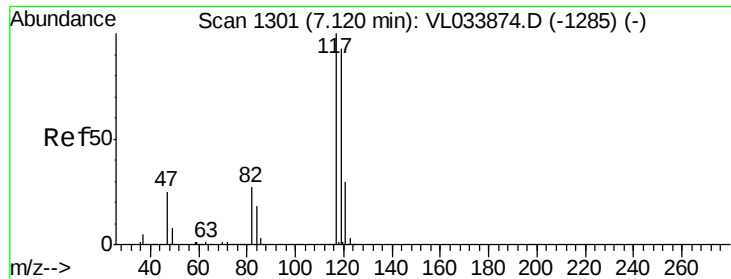
#34
 2-Butanone
 Concen: 11.261 ppbv
 RT: 5.31 min Scan# 738
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion: 43 Resp: 1273495
 Ion Ratio Lower Upper
 43 100
 72 22.1 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

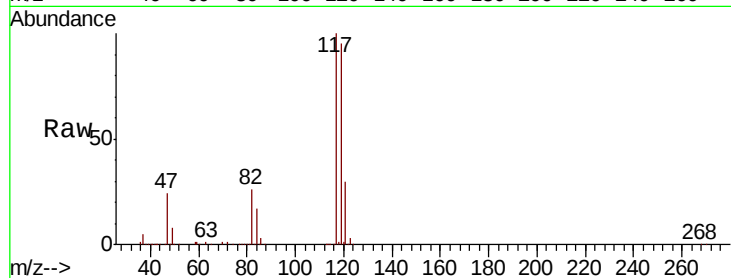




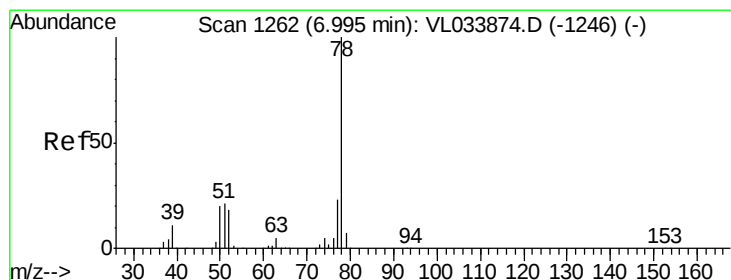
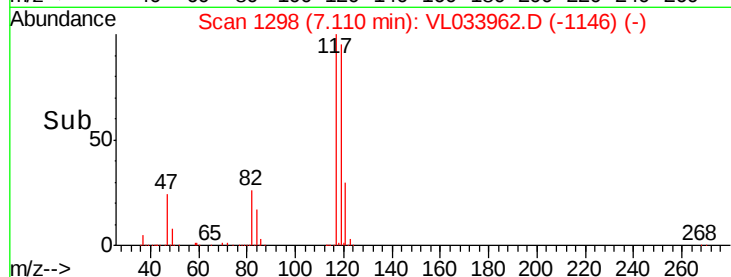
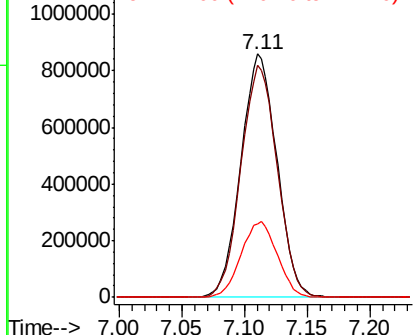
#35
Carbon Tetrachloride
Concen: 11.091 ppbv
RT: 7.11 min Scan# 1298
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 1717754
Ion Ratio Lower Upper
117 100
119 95.1 74.6 111.8
121 30.4 24.0 36.0

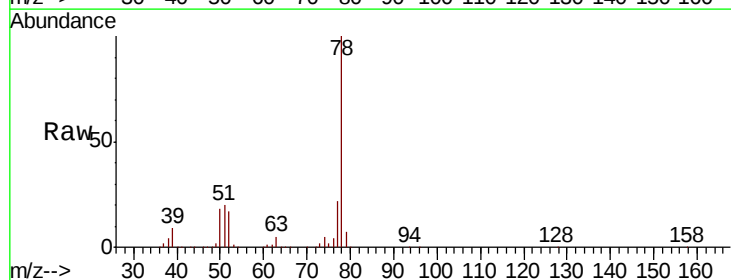


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

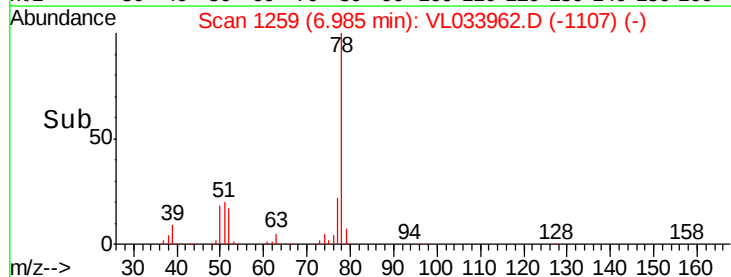
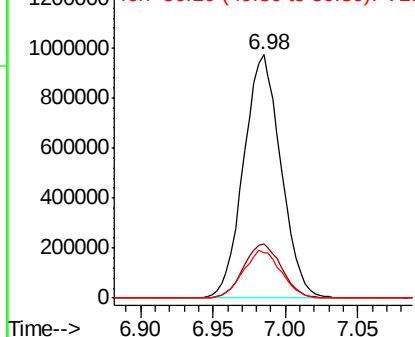


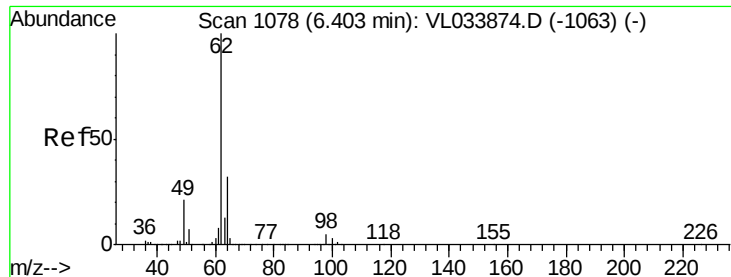
#36
Benzene
Concen: 11.389 ppbv
RT: 6.98 min Scan# 1259
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion: 78 Resp: 1744062
Ion Ratio Lower Upper
78 100
77 22.2 18.2 27.2
50 18.4 15.9 23.9



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

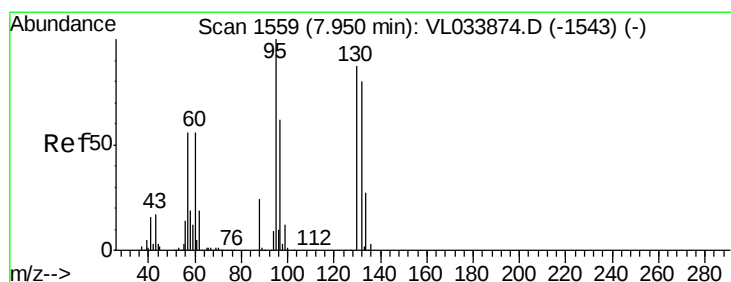
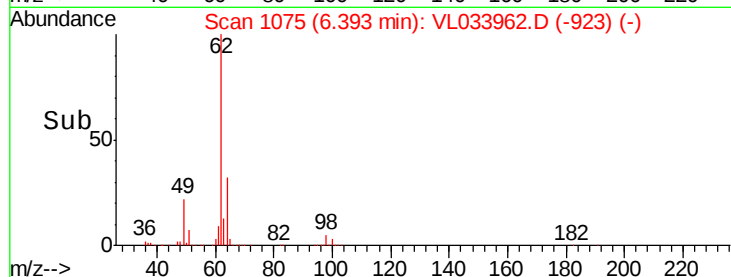
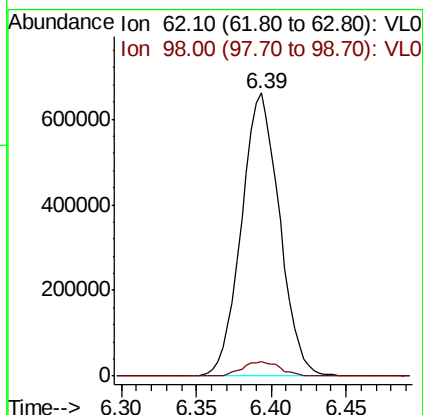
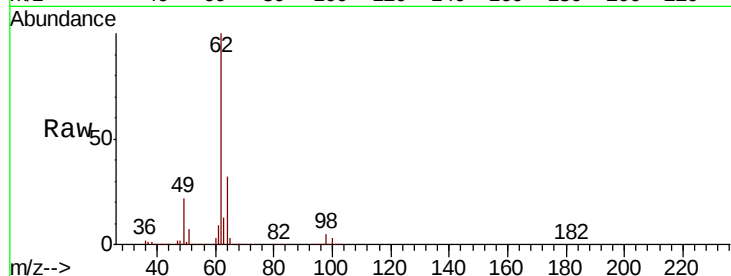




#37
 1,2-Dichloroethane
 Concen: 10.346 ppbv
 RT: 6.39 min Scan# 1075
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

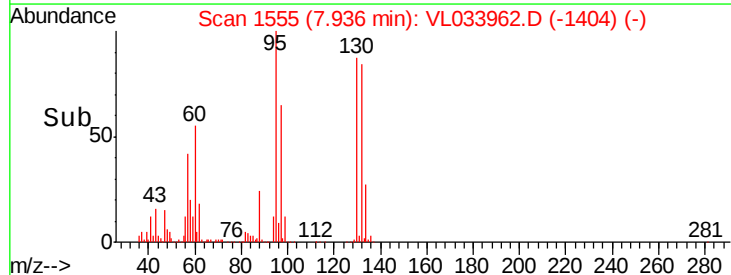
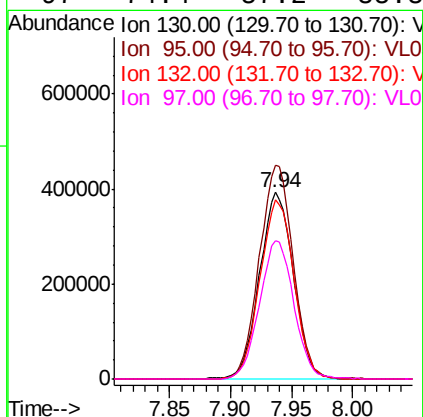
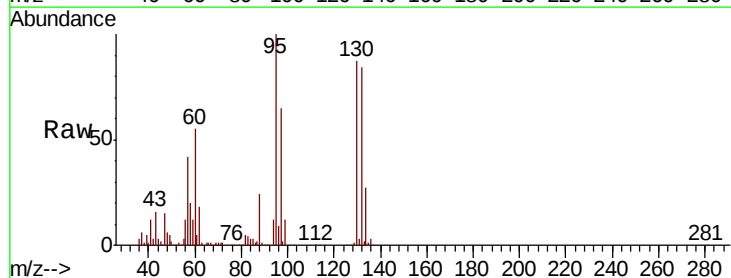
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

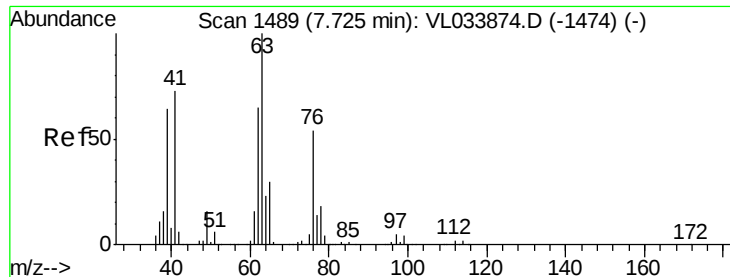
Tot Ion: 62 Resp: 1171693
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.0 6.0



#38
 Trichloroethene
 Concen: 12.755 ppbv
 RT: 7.94 min Scan# 1555
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion: 130 Resp: 760510
 Ion Ratio Lower Upper
 130 100
 95 114.6 92.0 138.0
 132 95.9 73.8 110.8
 97 74.4 57.2 85.8

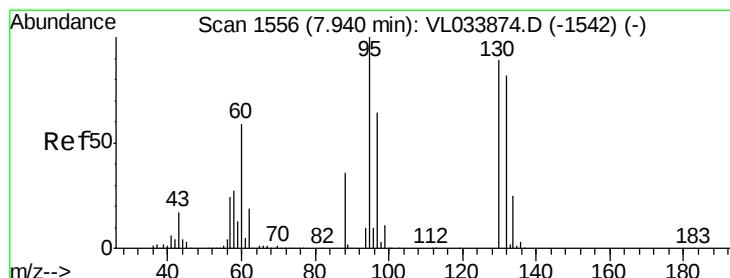
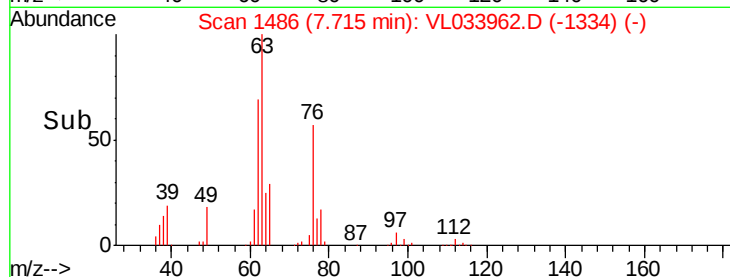
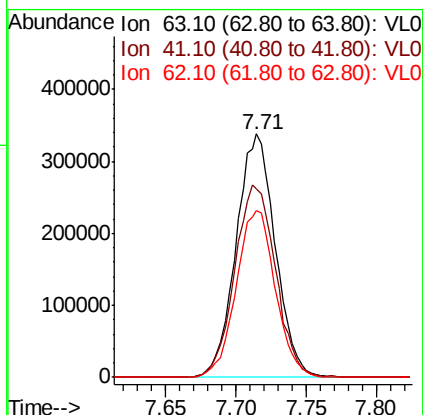
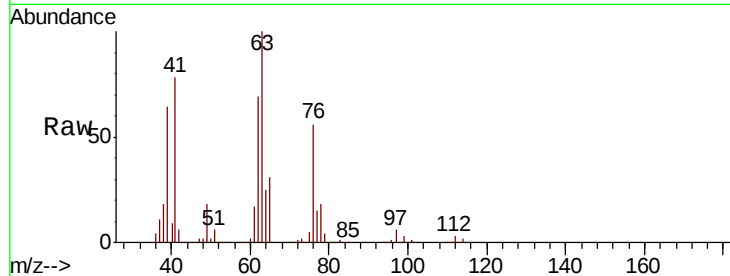




#39
 1,2-Dichloropropane
 Concen: 11.091 ppbv
 RT: 7.71 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

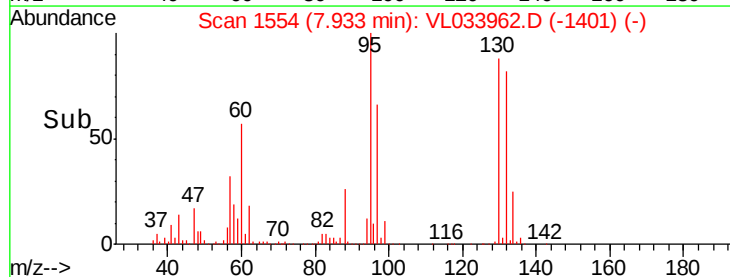
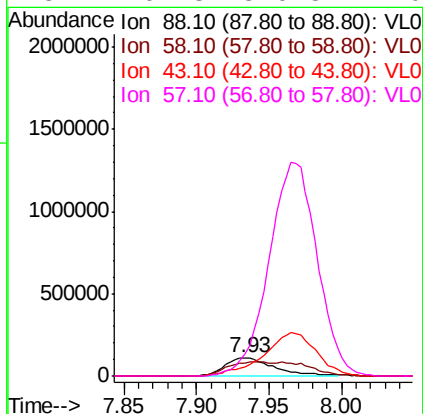
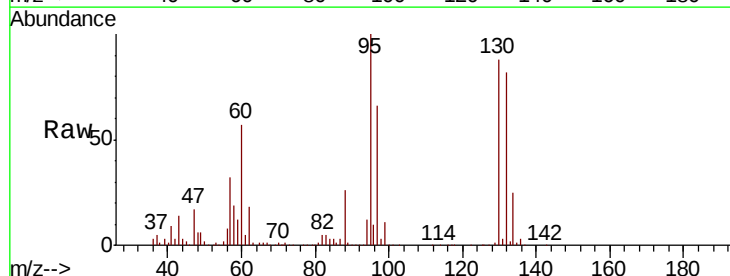
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

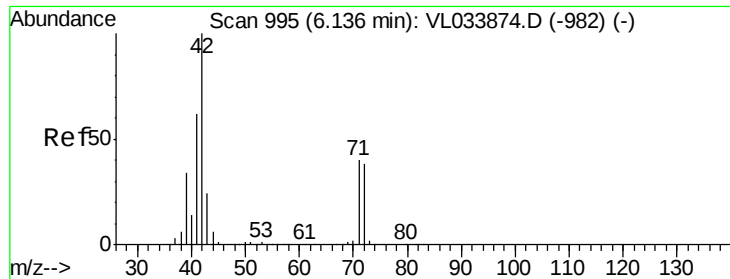
Tot Ion: 63 Resp: 655475
 Ion Ratio Lower Upper
 63 100
 41 77.7 58.7 88.1
 62 68.7 51.9 77.9



#40
 1,4-Dioxane
 Concen: 10.763 ppbv
 RT: 7.93 min Scan# 1554
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion: 88 Resp: 259436
 Ion Ratio Lower Upper
 88 100
 58 127.0 100.0 150.0
 43 256.5 184.7 277.1
 57 1162.3 826.8 1240.2





#41

Tetrahydrofuran

Concen: 11.722 ppbv

RT: 6.13 min Scan# 992

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

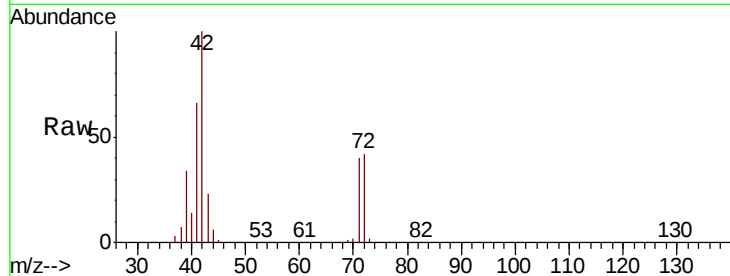
Tot Ion: 42 Resp: 672879

Ion Ratio Lower Upper

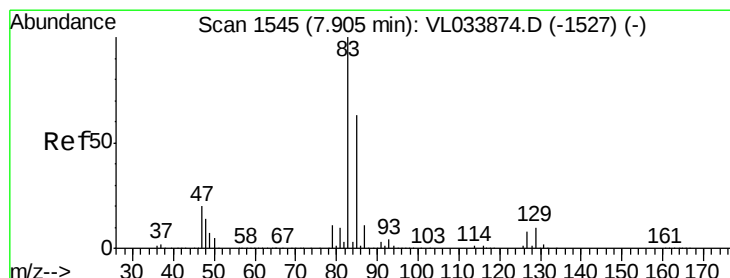
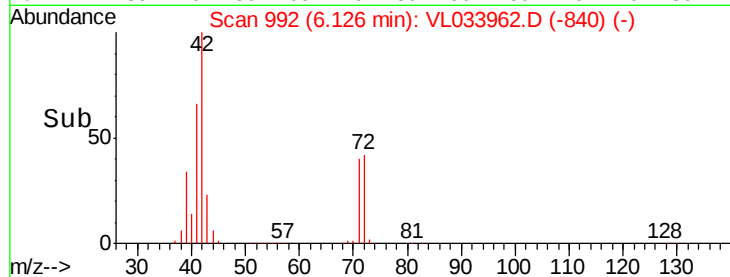
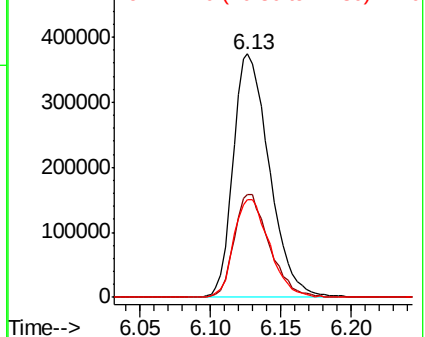
42 100

72 41.2 32.2 48.4

71 40.1 31.7 47.5



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.933 ppbv

RT: 7.89 min Scan# 1542

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

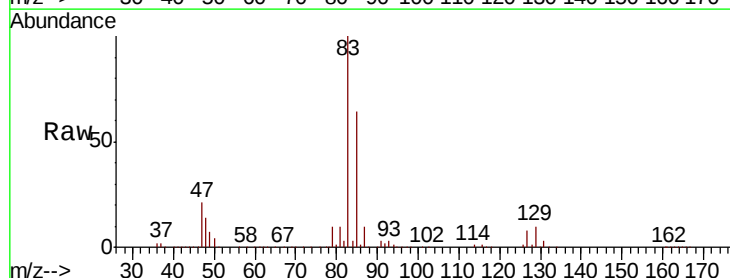
Tgt Ion: 83 Resp: 1654688

Ion Ratio Lower Upper

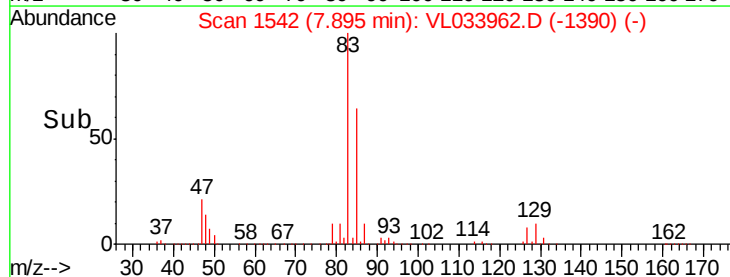
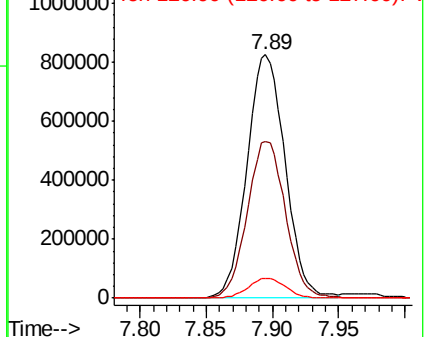
83 100

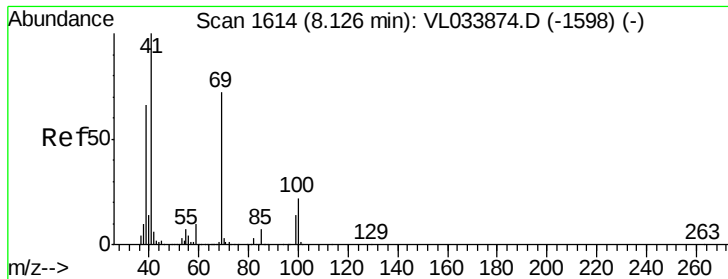
85 64.4 50.2 75.2

127 8.2 6.5 9.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

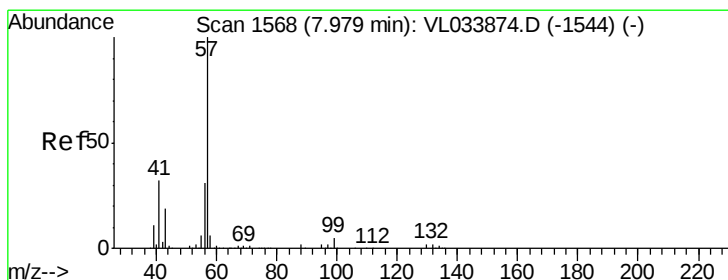
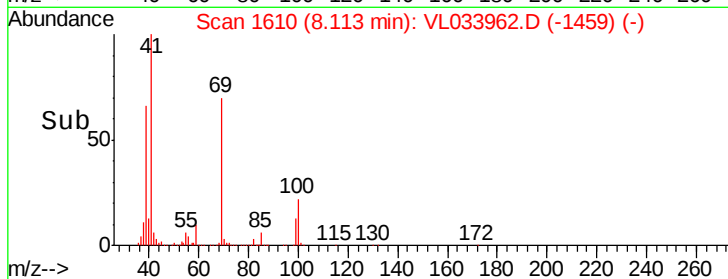
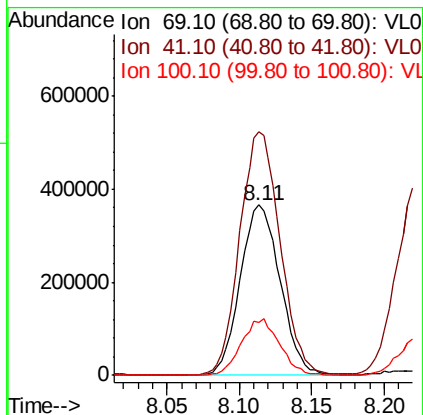
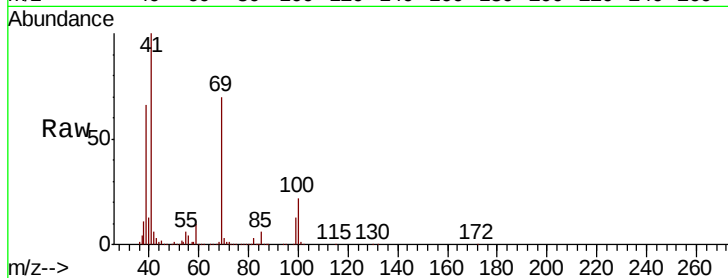




#43
Methvl Methacrylate
Concen: 12.257 ppbv
RT: 8.11 min Scan# 1610
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

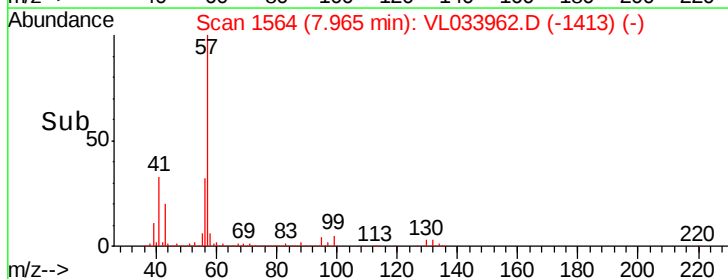
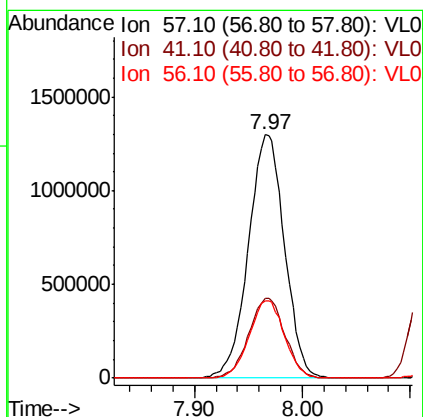
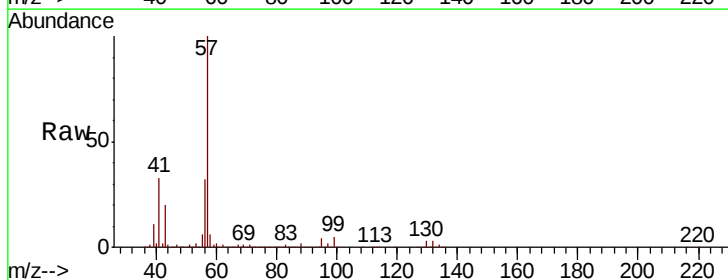
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

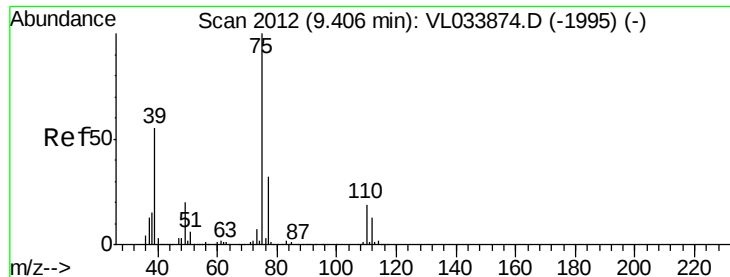
Tot Ion: 69 Resp: 701976
Ion Ratio Lower Upper
69 100
41 144.7 114.3 171.5
100 31.8 24.8 37.2



#44
2,2,4-Trimethylpentane
Concen: 11.057 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion: 57 Resp: 3011144
Ion Ratio Lower Upper
57 100
41 32.9 26.1 39.1
56 31.1 24.6 36.8





#45

t-1,3-Dichloropropene

Concen: 13.082 ppbv

RT: 9.39 min Scan# 2007

Delta R.T. -0.02 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

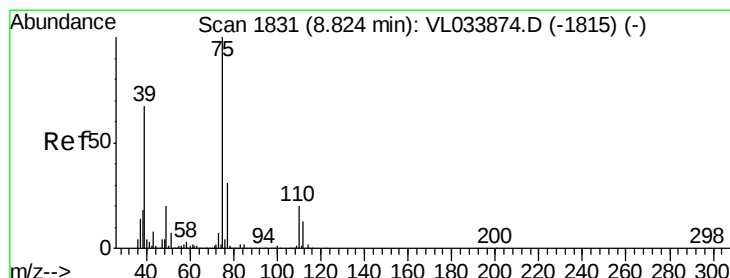
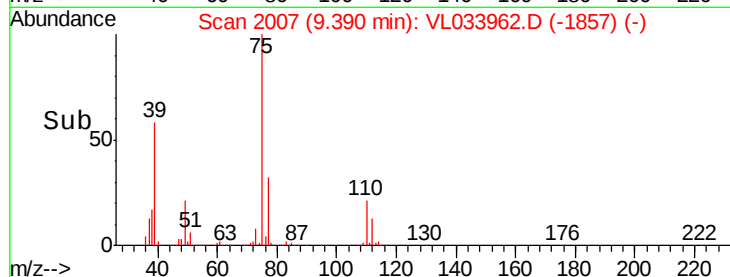
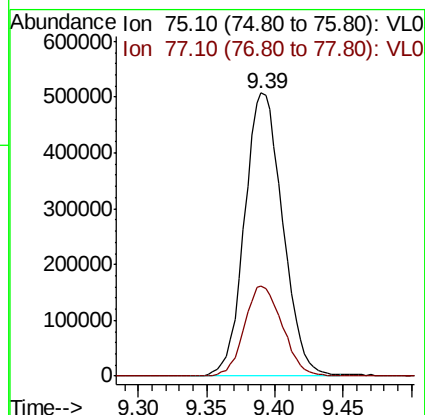
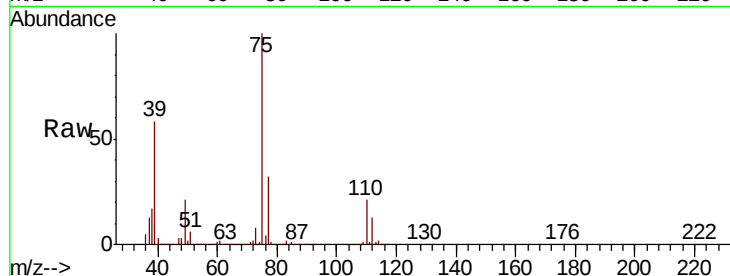
VSTDCCC010EC

Tot Ion: 75 Resp: 983079

Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 13.000 ppbv

RT: 8.81 min Scan# 1827

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

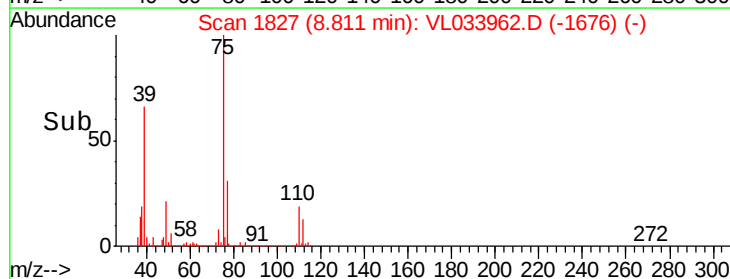
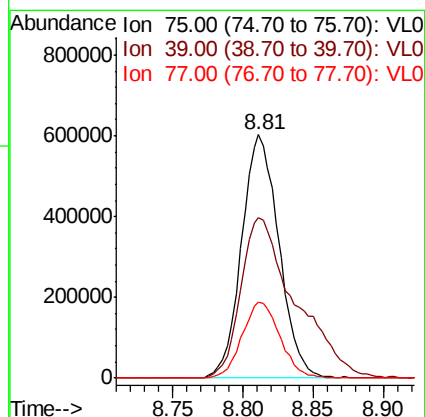
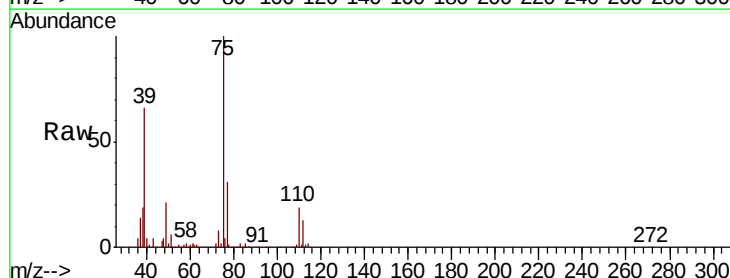
Tgt Ion: 75 Resp: 1119239

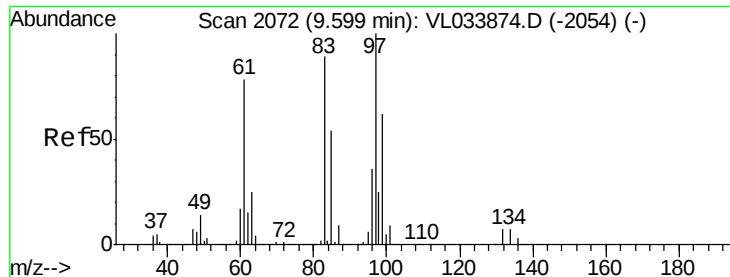
Ion Ratio Lower Upper

75 100

39 65.7 53.8 80.8

77 31.4 24.6 36.8





#47

1,1,2-Trichloroethane

Concen: 10.834 ppbv

RT: 9.59 min Scan# 2069

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 763318

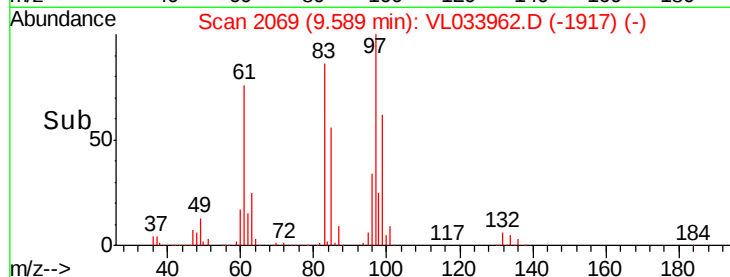
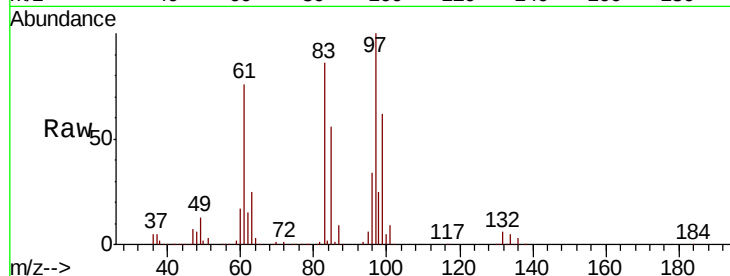
Ion	Ratio	Lower	Upper
97	100		
83	86.0	70.9	106.3
85	55.7	43.0	64.6
99	62.0	49.3	73.9

97 100

83 86.0 70.9 106.3

85 55.7 43.0 64.6

99 62.0 49.3 73.9



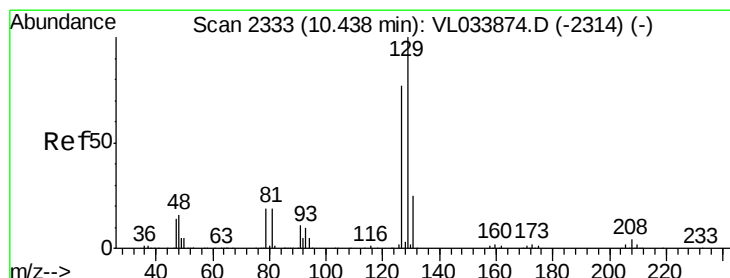
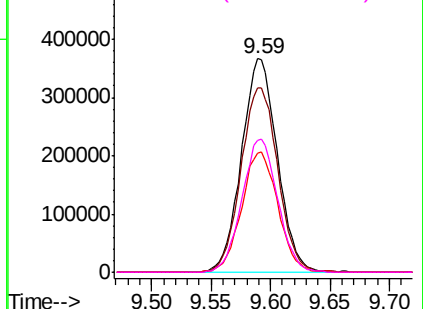
Abundance

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: 11.343 ppbv

RT: 10.43 min Scan# 2330

Delta R.T. -0.01 min

Lab File: VL033962.D

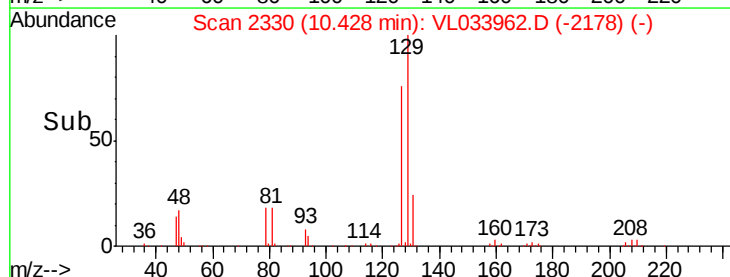
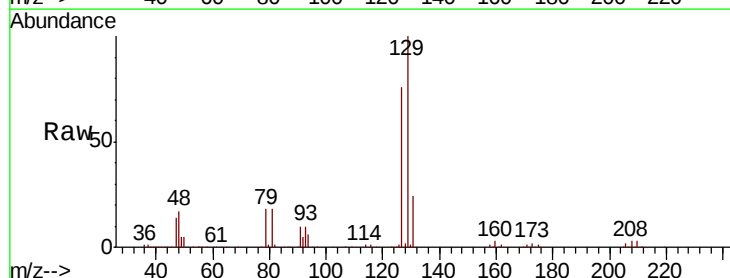
Acq: 25 Jun 2019 8:31

Tgt Ion:129 Resp: 1436284

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.7

129 100

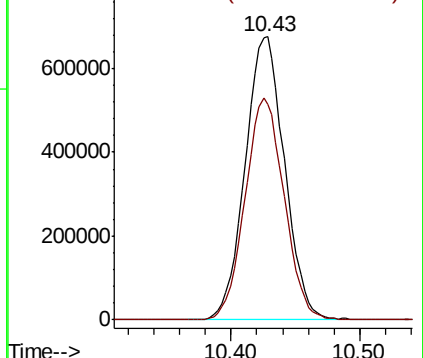
127 78.1 38.6 115.7

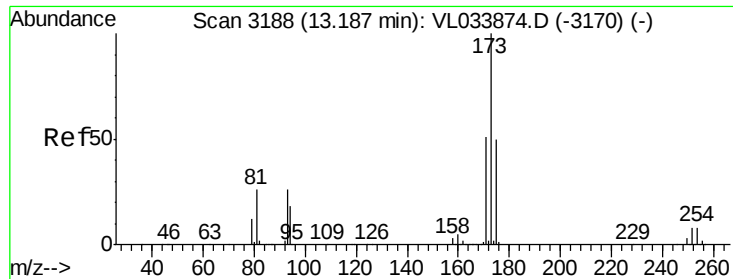


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.835 ppbv

RT: 13.17 min Scan# 3184

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

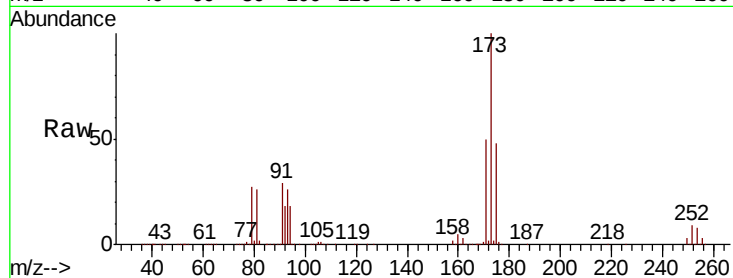
Tot Ion:173 Resp: 1322870

Ion Ratio Lower Upper

173 100

175 49.5 39.6 59.4

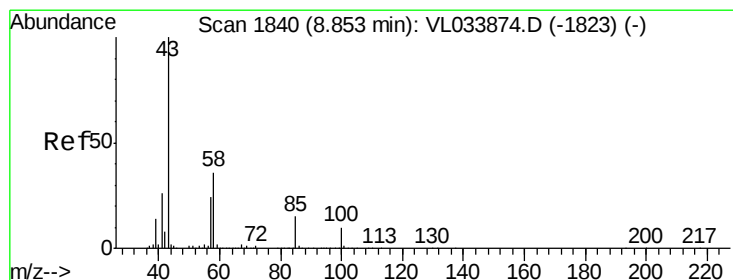
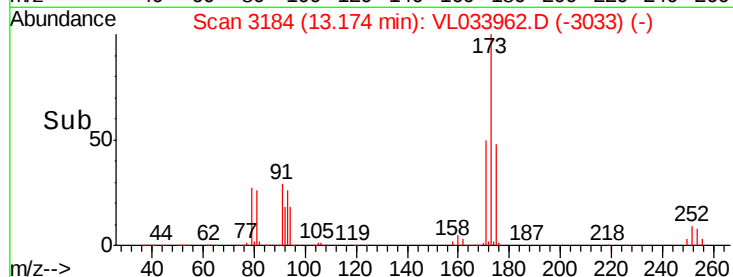
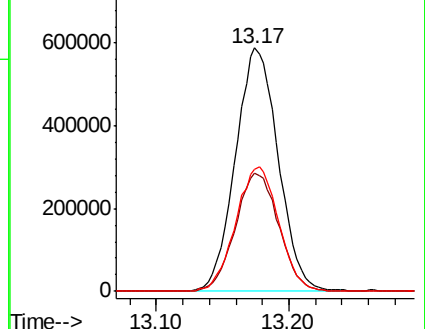
171 51.7 41.8 62.8



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.536 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. -0.01 min

Lab File: VL033962.D

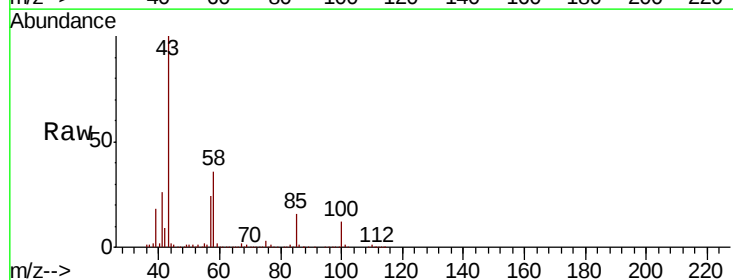
Acq: 25 Jun 2019 8:31

Tgt Ion: 43 Resp: 1945367

Ion Ratio Lower Upper

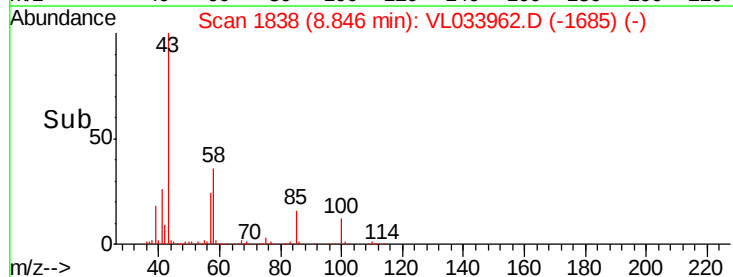
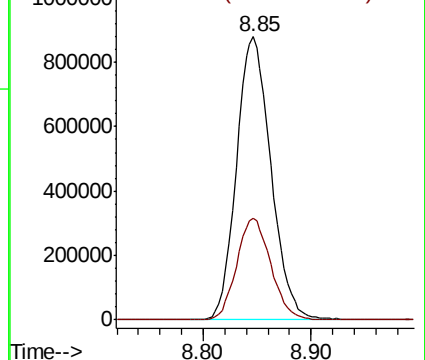
43 100

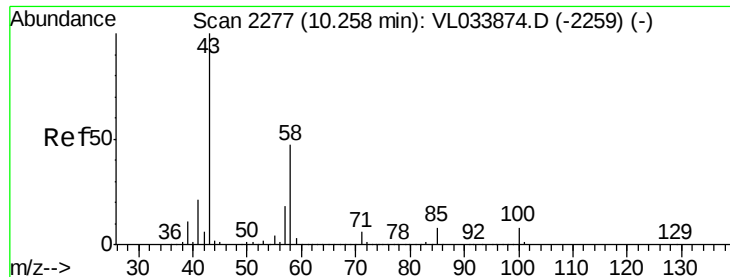
58 35.8 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

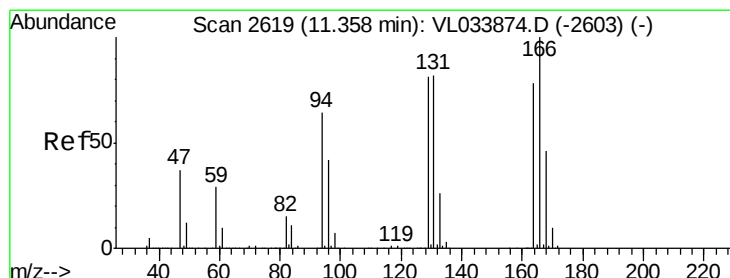
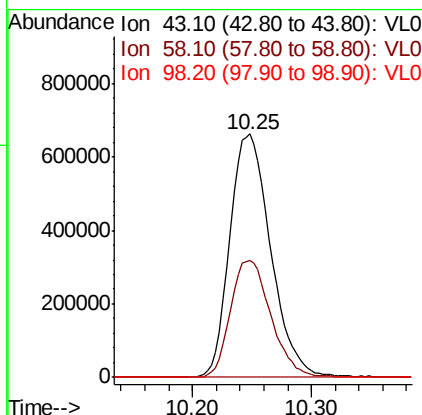
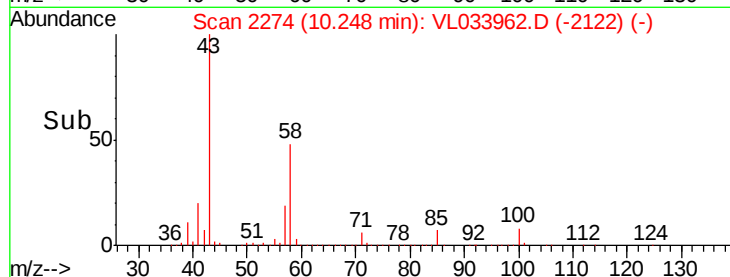
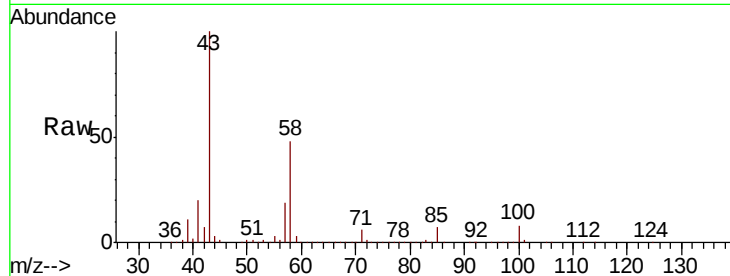




#51
2-Hexanone
Concen: 11.923 ppbv
RT: 10.25 min Scan# 2274
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

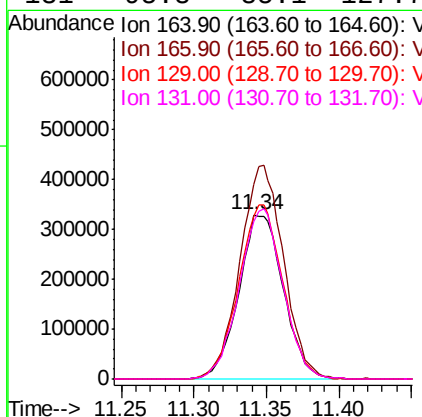
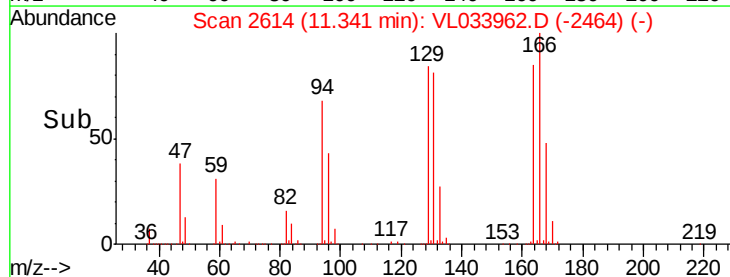
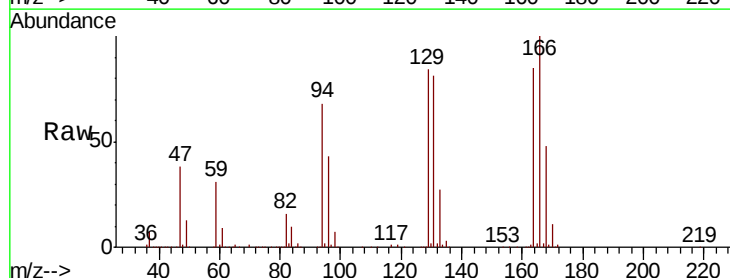
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

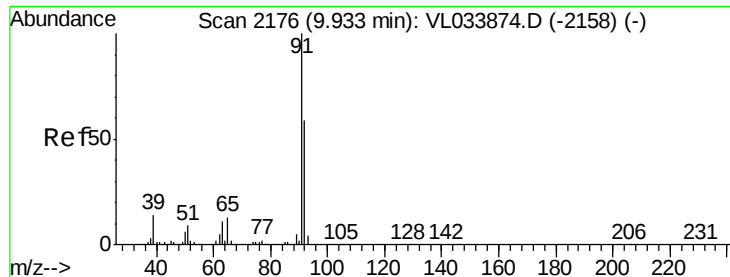
Tot Ion: 43 Resp: 1570138
Ion Ratio Lower Upper
43 100
58 47.8 38.2 57.4
98 0.5 0.2 0.2#



#52
Tetrachloroethene
Concen: 12.995 ppbv
RT: 11.34 min Scan# 2614
Delta R.T. -0.02 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion:164 Resp: 700225
Ion Ratio Lower Upper
164 100
166 118.1 103.1 154.7
129 99.2 83.9 125.9
131 95.8 85.1 127.7





#53

Toluene

Concen: 12.349 ppbv

RT: 9.92 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

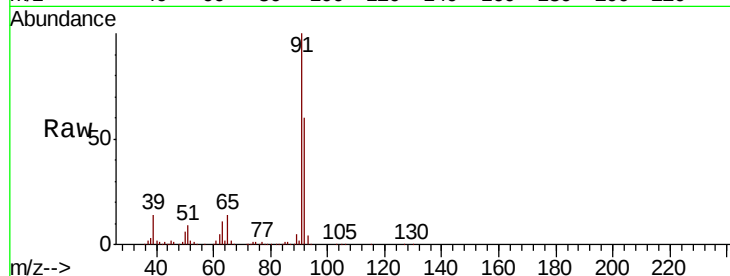
VSTDCCC010EC

Tot Ion: 91 Resp: 2092664

Ion Ratio Lower Upper

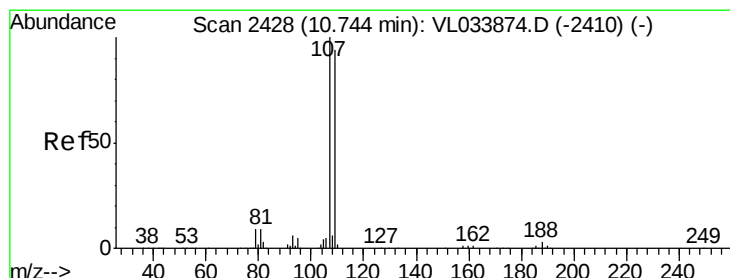
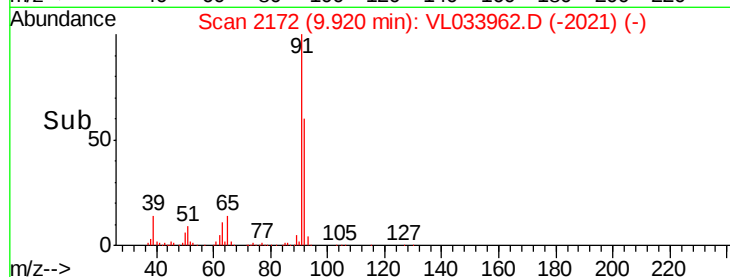
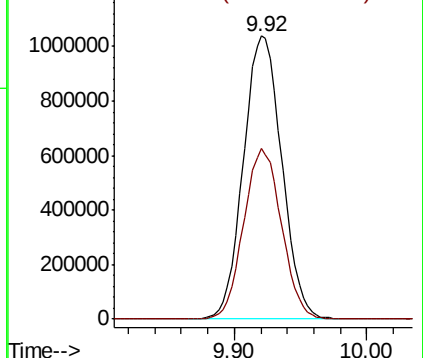
91 100

92 59.5 47.0 70.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 11.342 ppbv

RT: 10.73 min Scan# 2425

Delta R.T. -0.01 min

Lab File: VL033962.D

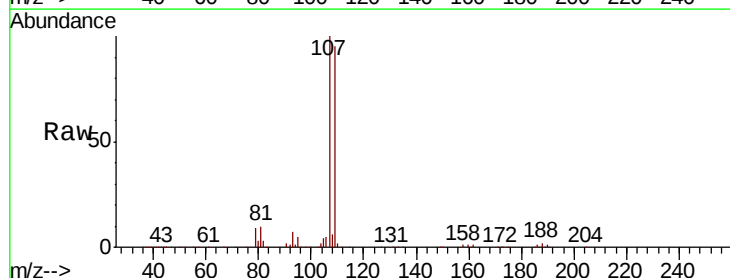
Acq: 25 Jun 2019 8:31

Tgt Ion: 107 Resp: 1204565

Ion Ratio Lower Upper

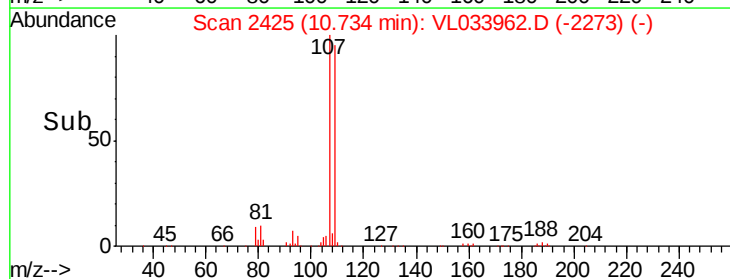
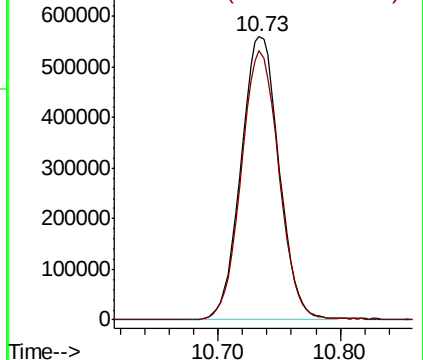
107 100

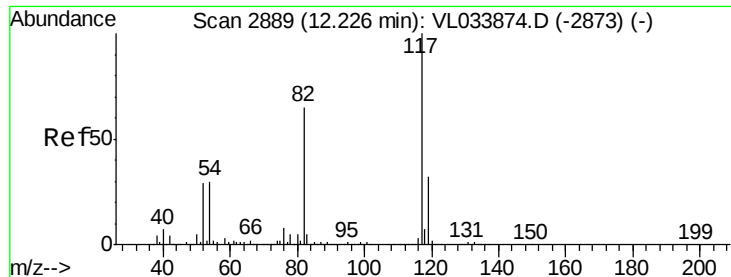
109 95.3 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

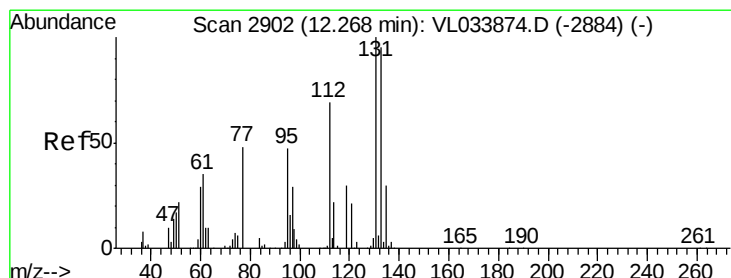
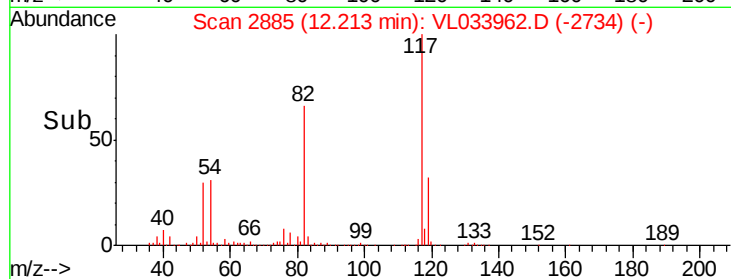
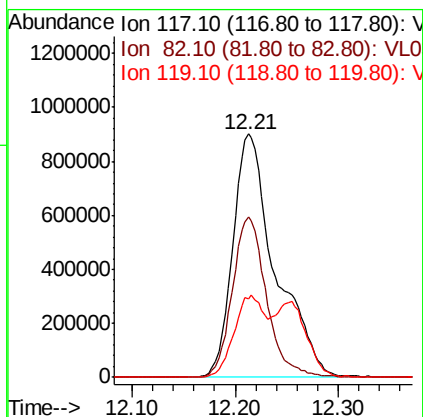
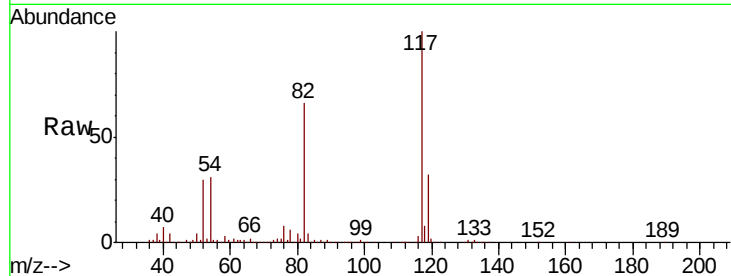




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2885
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

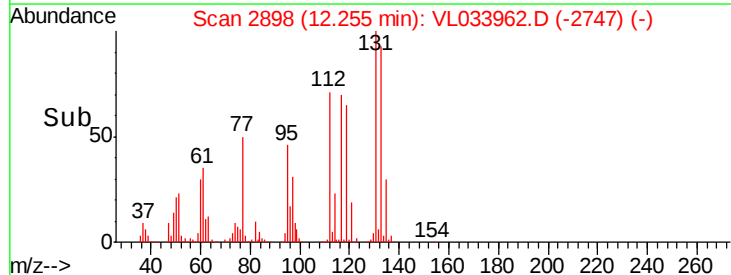
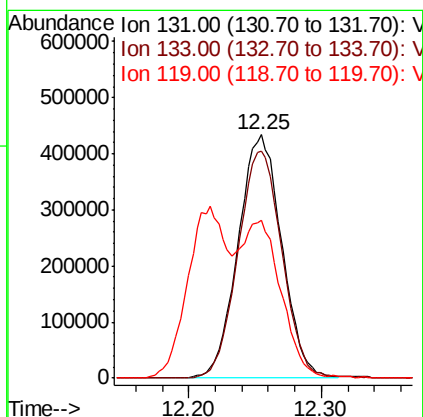
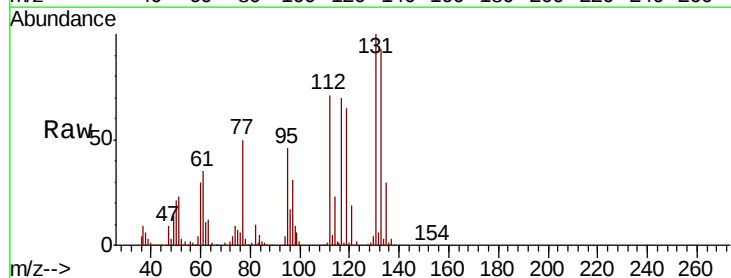
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

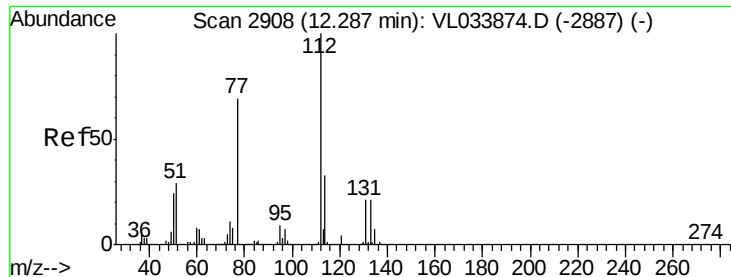
Tot Ion:117 Resp: 2593548
Ion Ratio Lower Upper
117 100
82 53.2 50.2 75.2
119 24.2 24.8 37.2#



#56
1,1,1,2-Tetrachloroethane
Concen: 8.729 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion:131 Resp: 988951
Ion Ratio Lower Upper
131 100
133 95.2 76.5 114.7
119 66.7 42.6 64.0#





#57

Chlorobenzene

Concen: 8.647 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

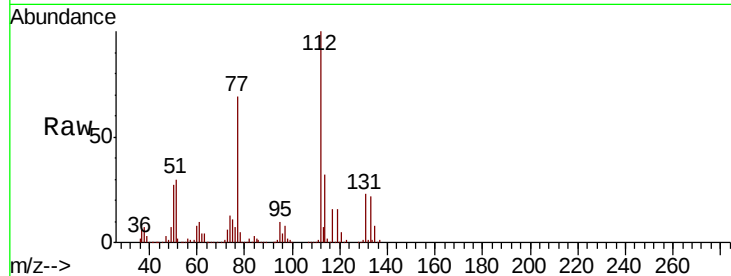
Tot Ion:112 Resp: 1679579

Ion Ratio Lower Upper

112 100

77 68.0 55.8 83.6

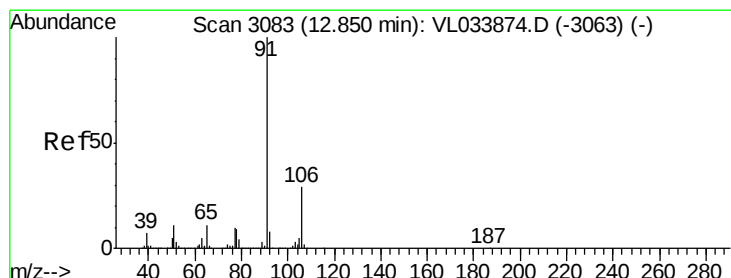
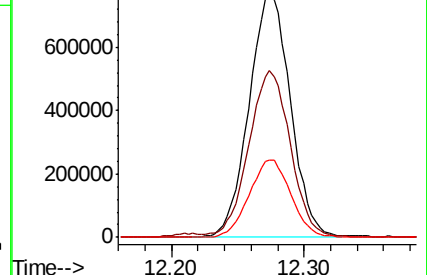
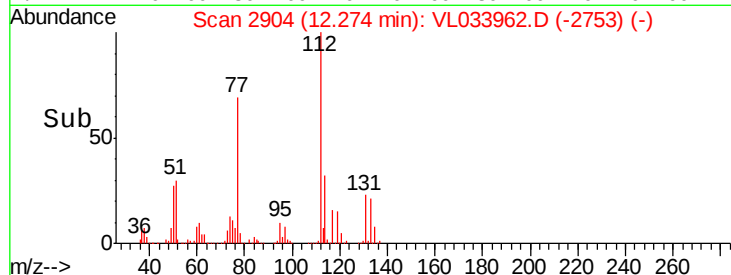
114 31.9 29.8 36.4



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.988 ppbv

RT: 12.84 min Scan# 3079

Delta R.T. -0.01 min

Lab File: VL033962.D

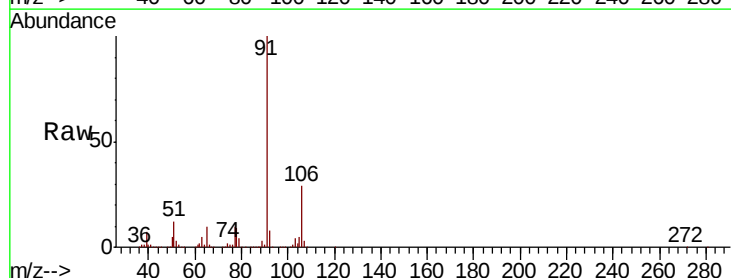
Acq: 25 Jun 2019 8:31

Tgt Ion: 91 Resp: 2920661

Ion Ratio Lower Upper

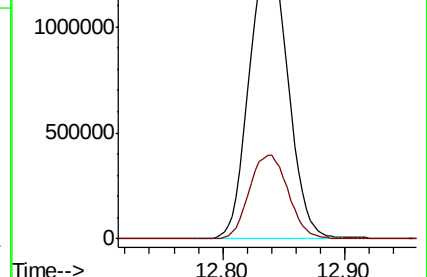
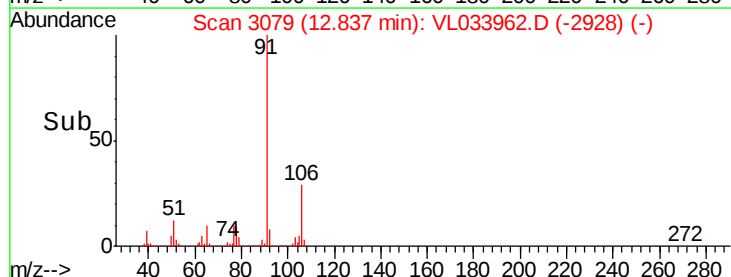
91 100

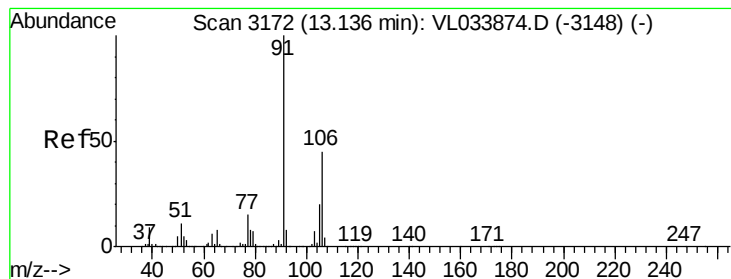
106 29.4 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

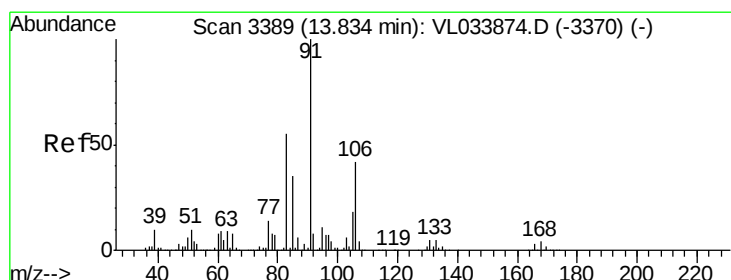
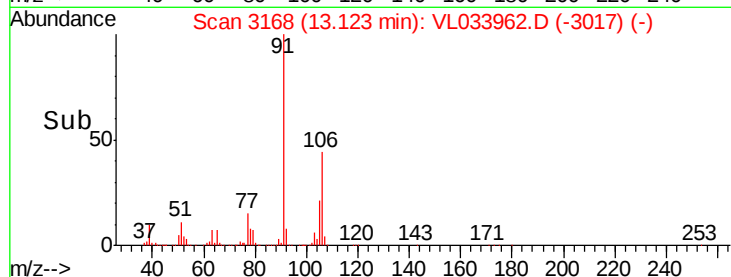
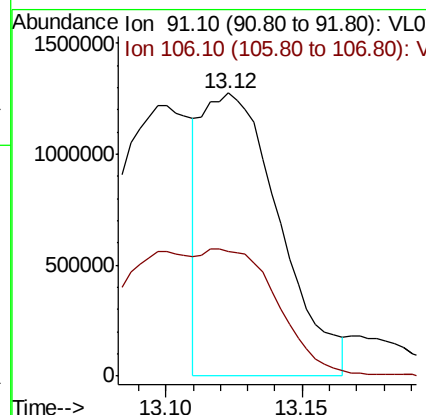
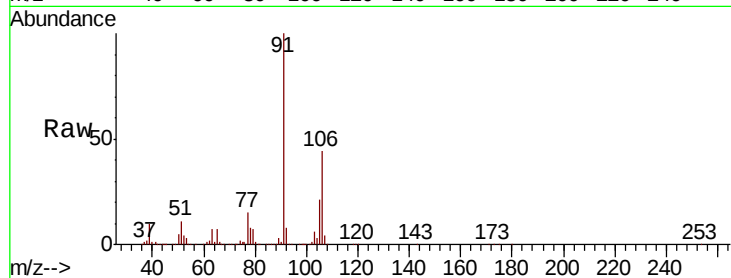




#59
m/p-Xylene
Concen: 9.429 ppbv
RT: 13.12 min Scan# 3168
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

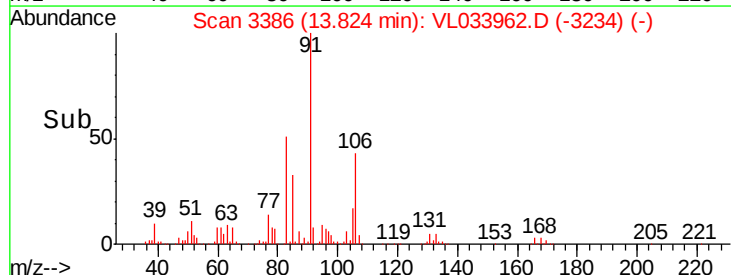
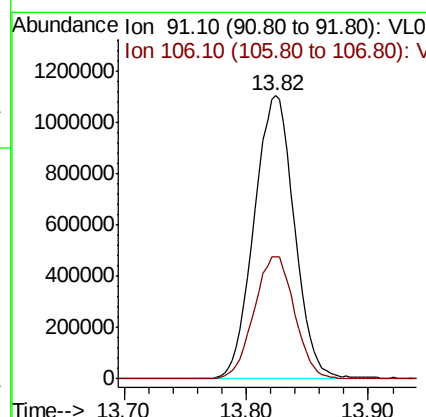
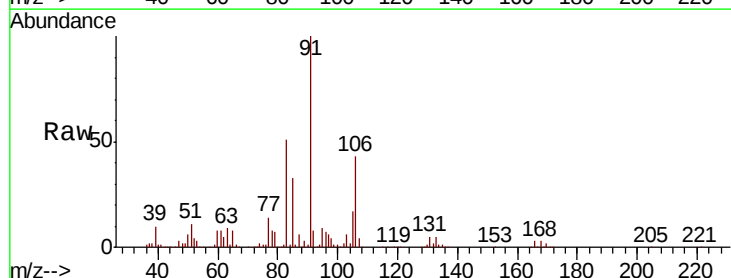
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

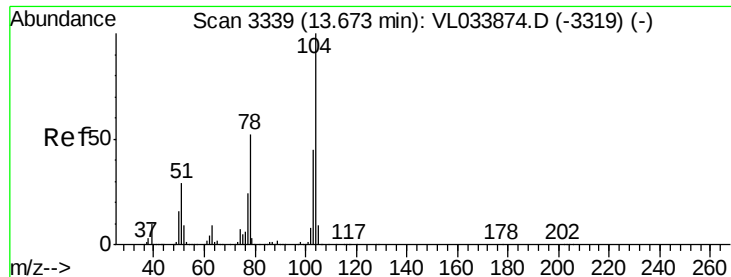
Tot Ion: 91 Resp: 2507108
Ion Ratio Lower Upper
91 100
106 89.9 35.8 53.8#



#60
o-Xylene
Concen: 9.175 ppbv
RT: 13.82 min Scan# 3386
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion: 91 Resp: 2519069
Ion Ratio Lower Upper
91 100
106 43.8 21.7 65.1





#61

Stvrene

Concen: 10.290 ppbv

RT: 13.66 min Scan# 3335

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

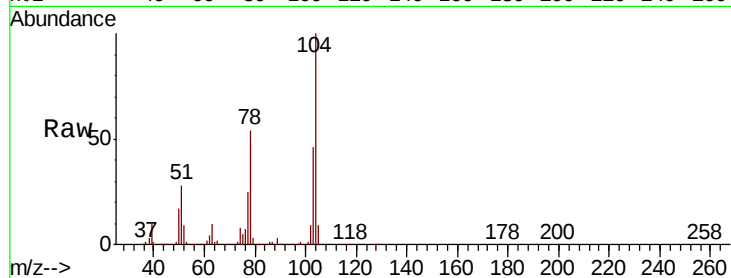
Tot Ion:104 Resp: 1828247

Ion Ratio Lower Upper

104 100

78 54.4 43.4 65.0

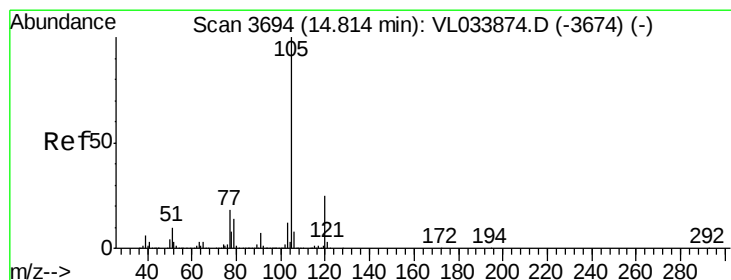
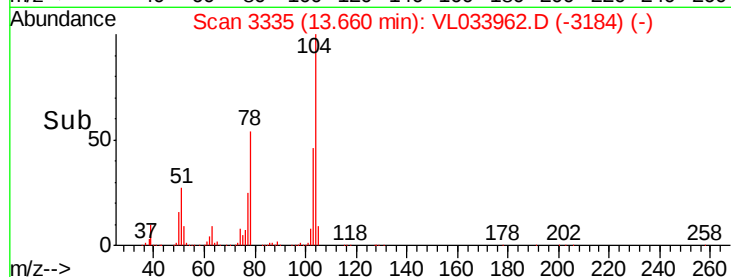
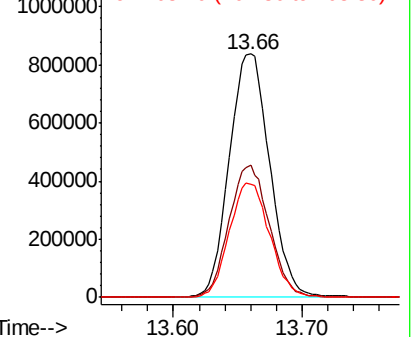
103 47.1 37.6 56.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.188 ppbv

RT: 14.80 min Scan# 3690

Delta R.T. -0.01 min

Lab File: VL033962.D

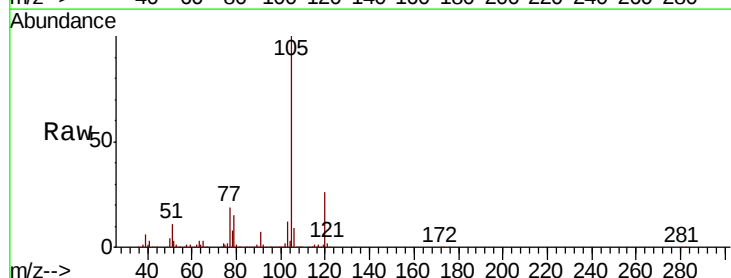
Acq: 25 Jun 2019 8:31

Tgt Ion:105 Resp: 3400017

Ion Ratio Lower Upper

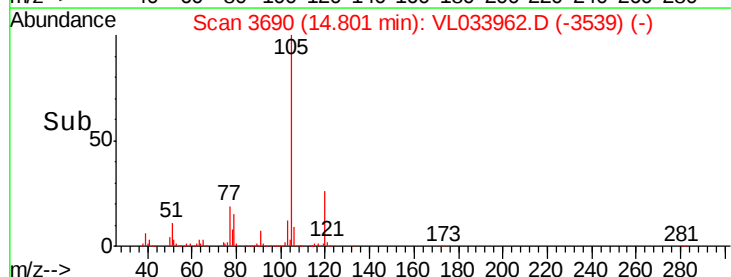
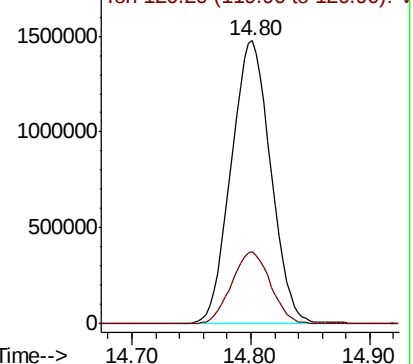
105 100

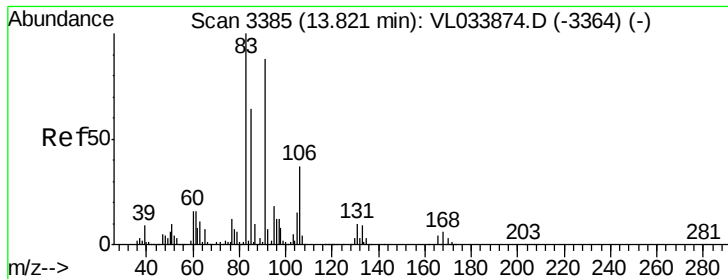
120 25.3 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

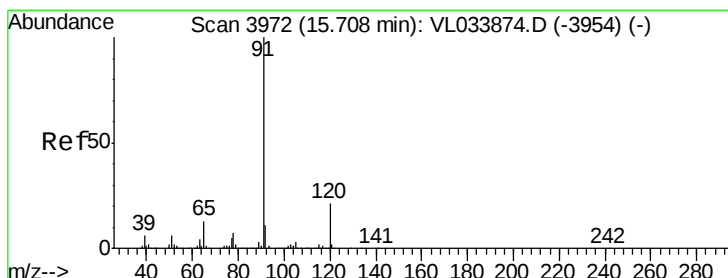
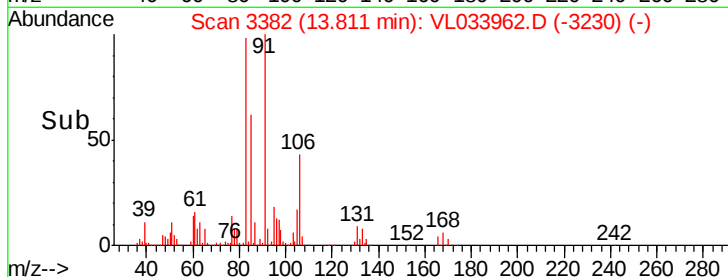
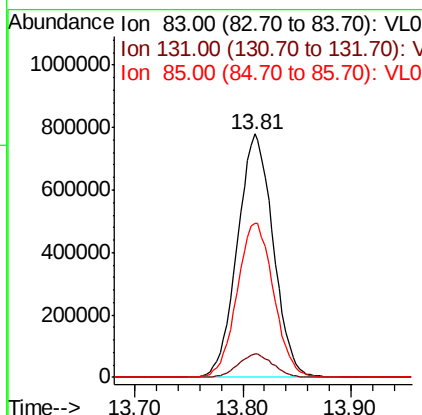
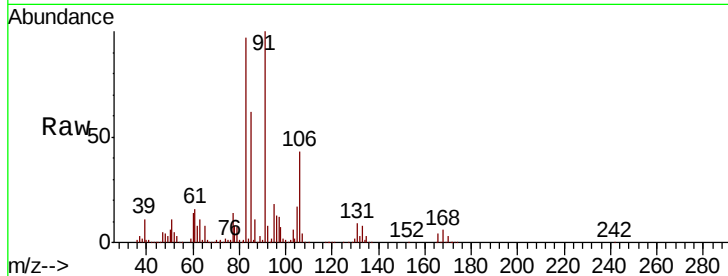




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.661 ppbv
 RT: 13.81 min Scan# 3382
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

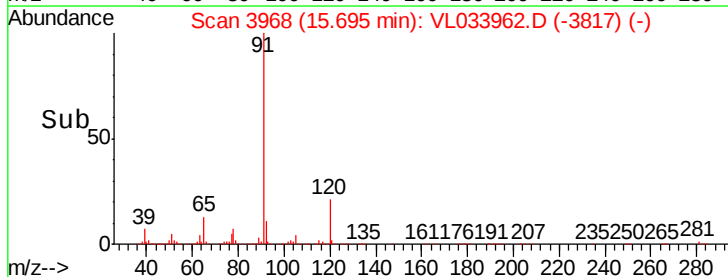
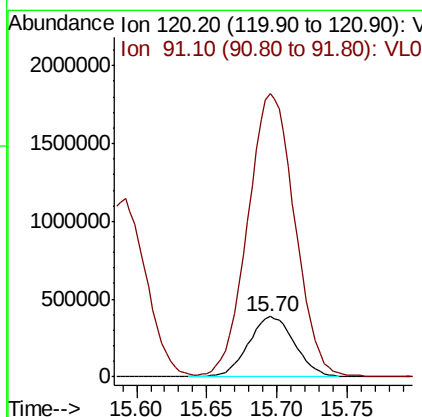
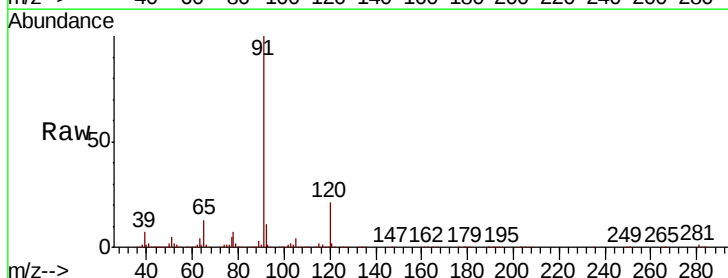
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

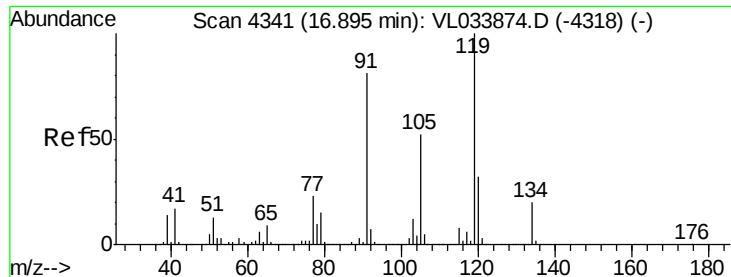
Tot Ion: 83 Resp: 1789954
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.8 14.4
 85 64.9 32.1 96.3



#64
 n-propylbenzene
 Concen: 9.347 ppbv
 RT: 15.70 min Scan# 3968
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion: 120 Resp: 885725
 Ion Ratio Lower Upper
 120 100
 91 480.6 387.0 580.6

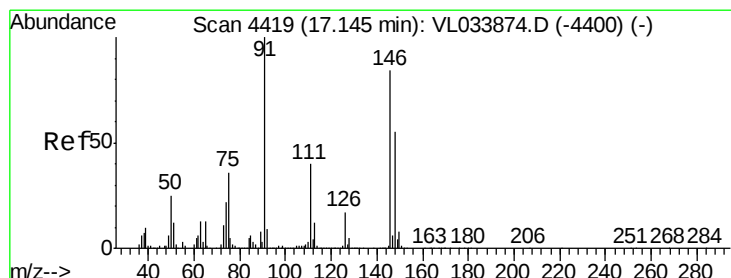
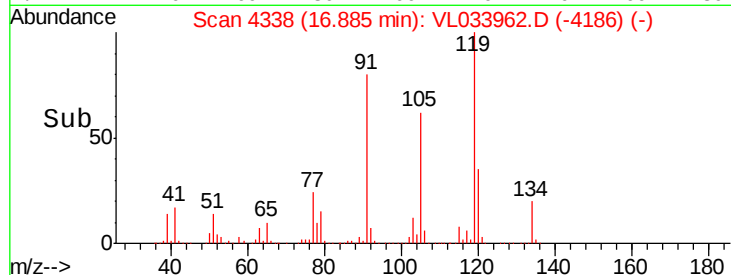
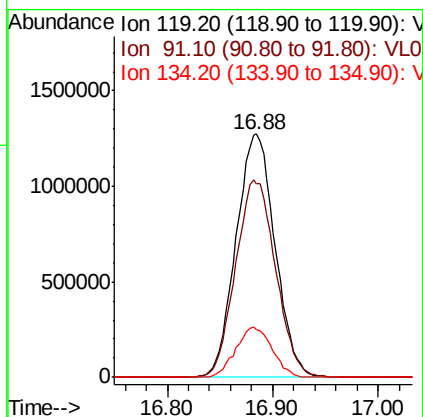
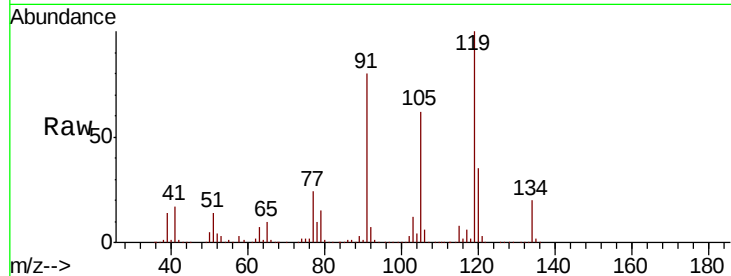




#65
tert-Butylbenzene
Concen: 9.531 ppbv
RT: 16.88 min Scan# 4338
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

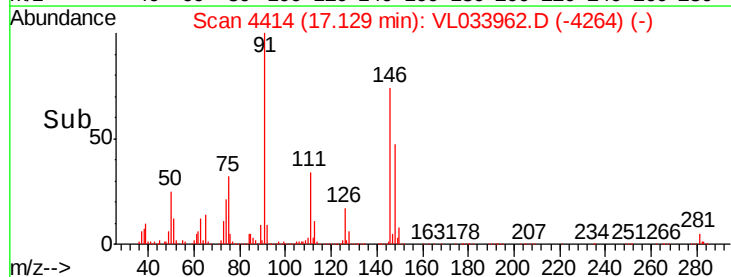
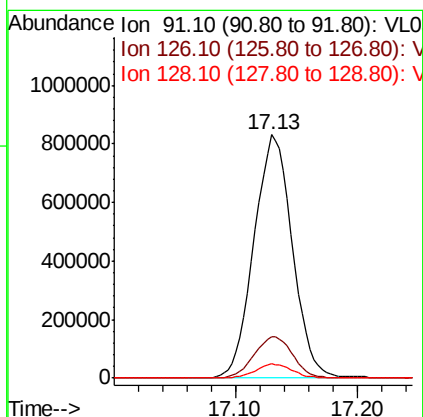
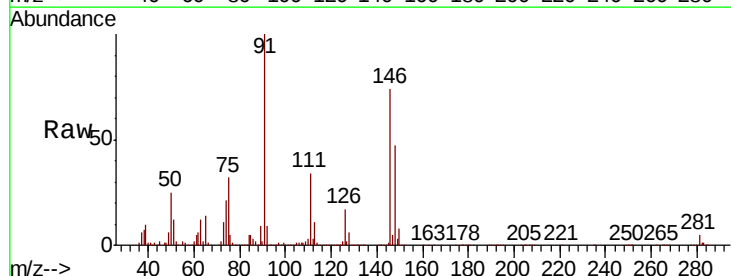
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

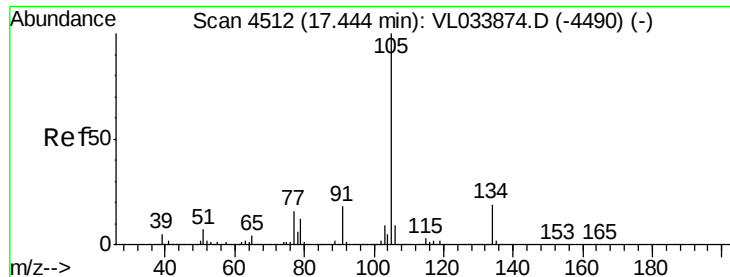
Tot Ion: 119 Resp: 3263118
Ion Ratio Lower Upper
119 100
91 83.6 66.6 100.0
134 19.3 15.5 23.3



#66
Benzyl Chloride
Concen: 10.454 ppbv
RT: 17.13 min Scan# 4414
Delta R.T. -0.02 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion: 91 Resp: 1813884
Ion Ratio Lower Upper
91 100
126 17.2 13.8 20.6
128 5.5 4.4 6.6

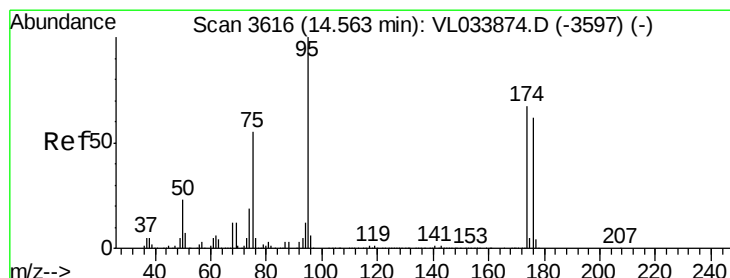
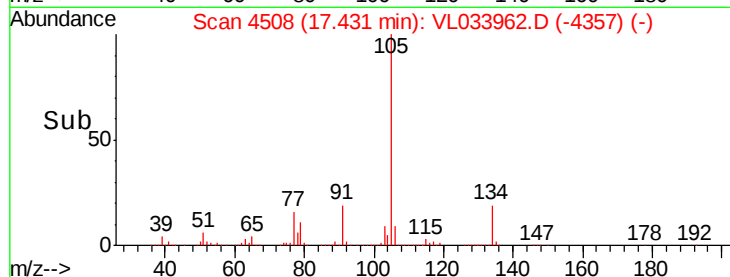
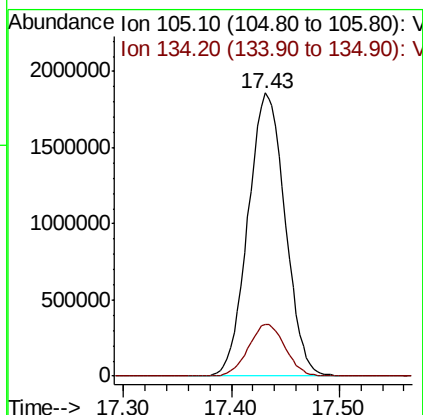
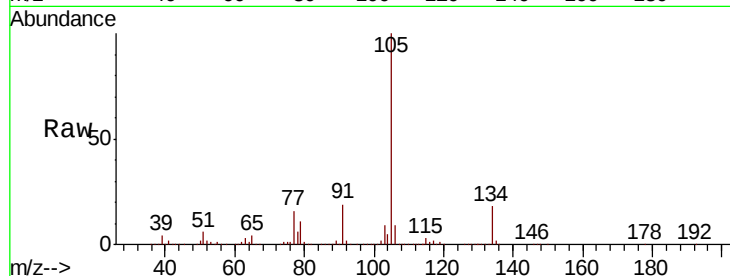




#67
 sec-Butylbenzene
 Concen: 9.255 ppbv
 RT: 17.43 min Scan# 4508
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

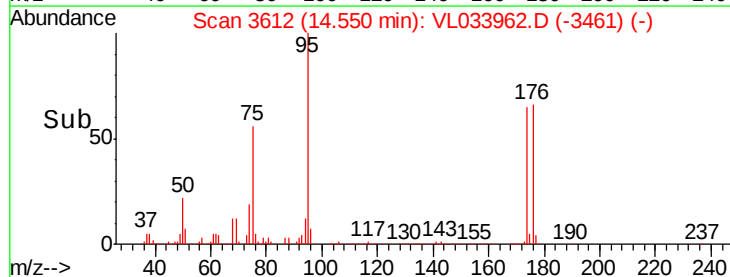
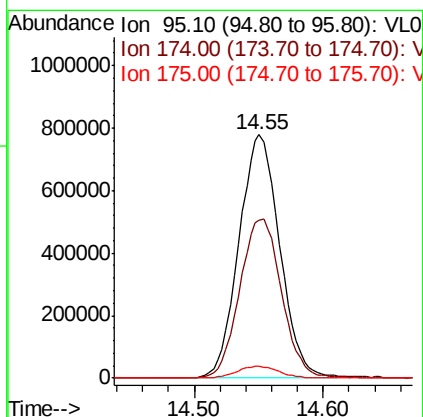
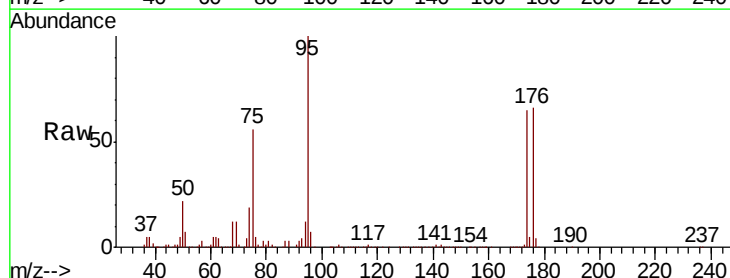
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

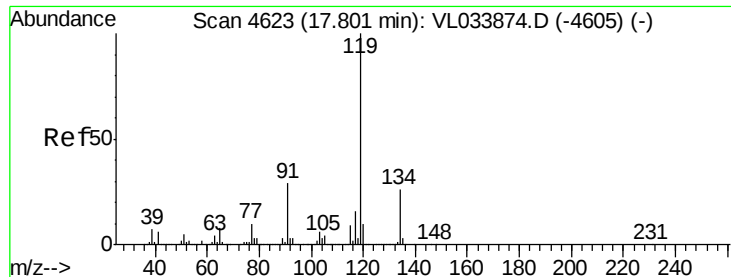
Tot Ion:105 Resp: 4445672
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 22.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.044 ppbv
 RT: 14.55 min Scan# 3612
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion: 95 Resp: 1713615
 Ion Ratio Lower Upper
 95 100
 174 67.5 54.0 81.0
 175 5.0 3.8 5.8

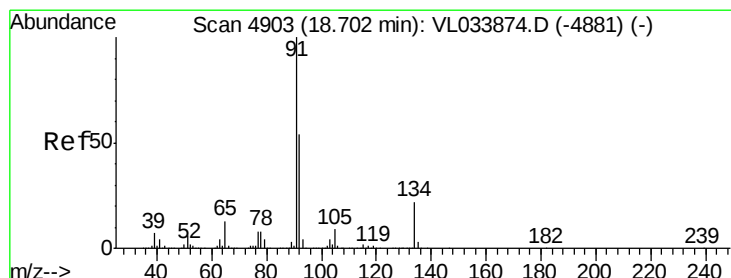
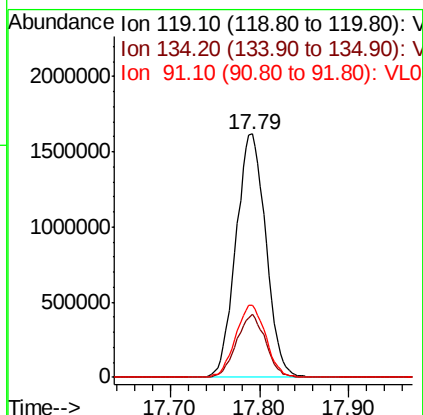
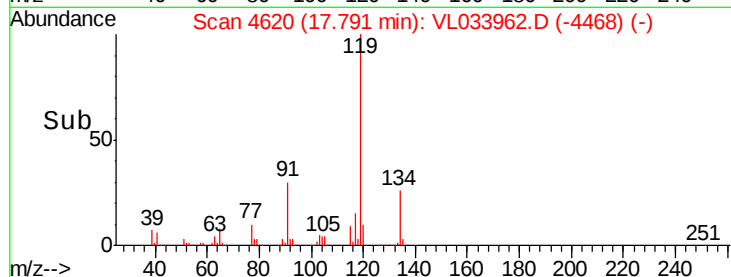
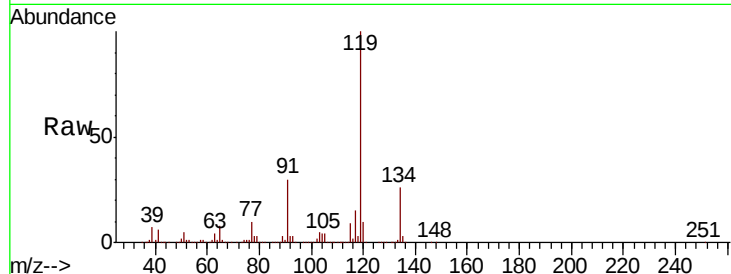




#69
 p-Isopropyltoluene
 Concen: 9.416 ppbv
 RT: 17.79 min Scan# 4620
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

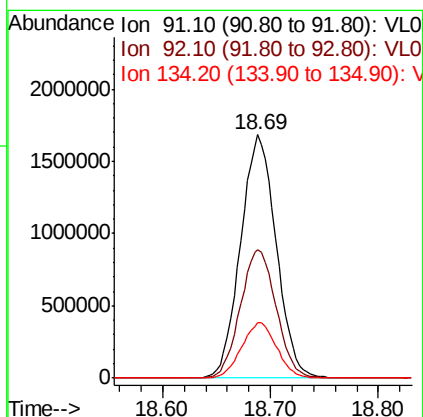
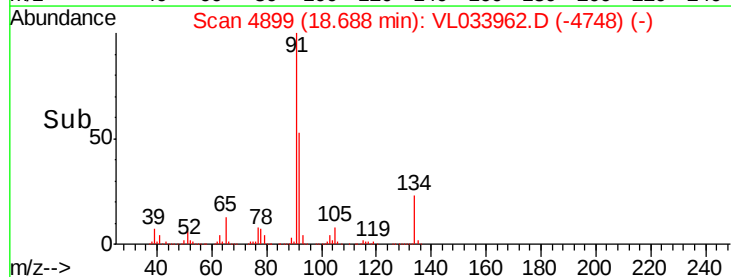
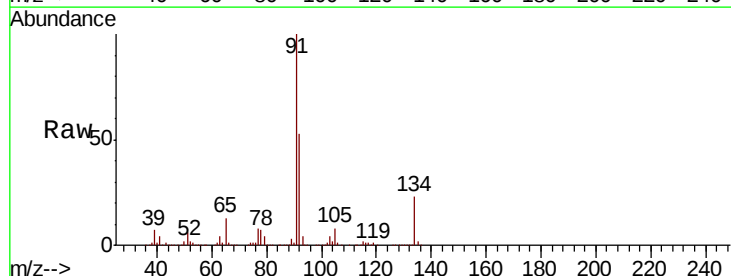
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

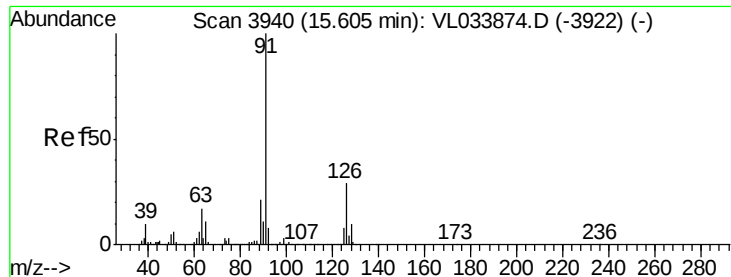
Tot Ion:119 Resp: 3763158
 Ion Ratio Lower Upper
 119 100
 134 25.1 20.3 30.5
 91 29.8 23.8 35.6



#70
 n-Butylbenzene
 Concen: 8.814 ppbv
 RT: 18.69 min Scan# 4899
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion: 91 Resp: 3857996
 Ion Ratio Lower Upper
 91 100
 92 53.3 42.5 63.7
 134 22.5 17.8 26.6





#71

2-Chlorotoluene

Concen: 9.512 ppbv

RT: 15.59 min Scan# 3936

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

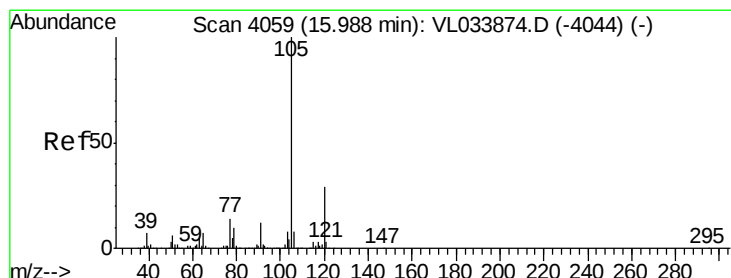
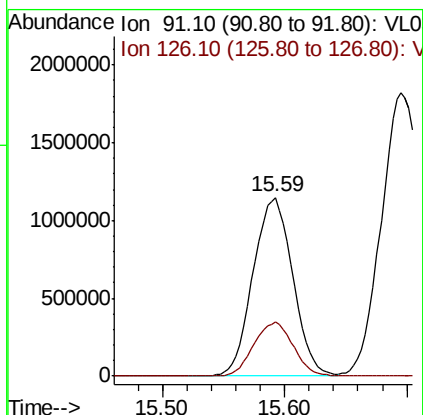
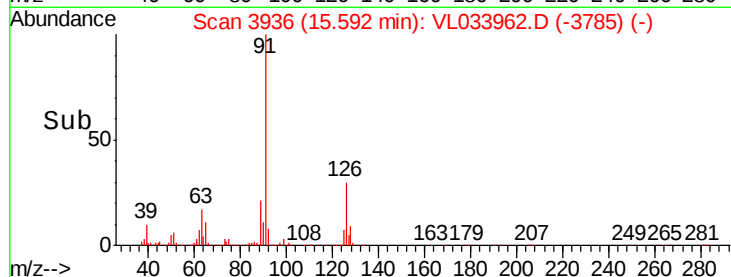
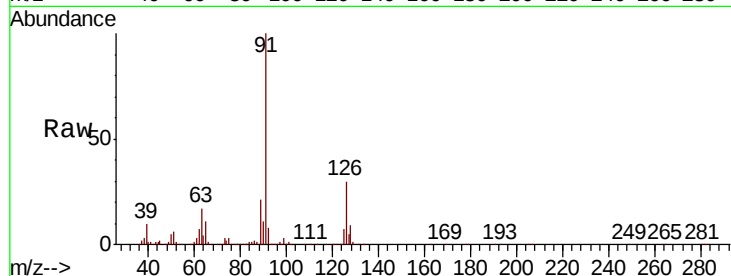
VSTDCCC010EC

Tot Ion: 91 Resp: 2592864

Ion Ratio Lower Upper

91 100

126 30.1 12.0 48.2



#72

4-Ethyltoluene

Concen: 9.790 ppbv

RT: 15.97 min Scan# 4055

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Tgt Ion: 105 Resp: 3058754

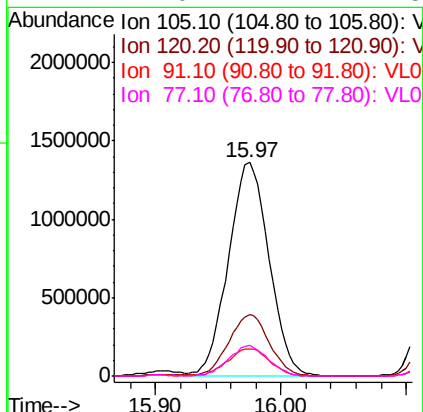
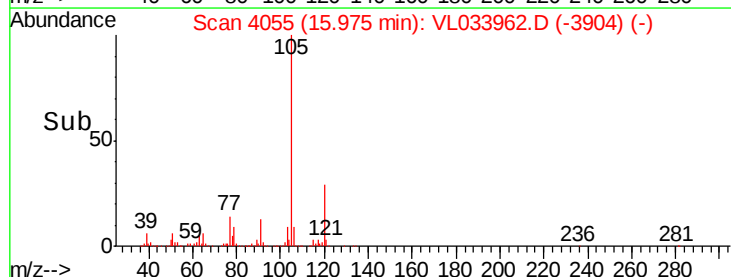
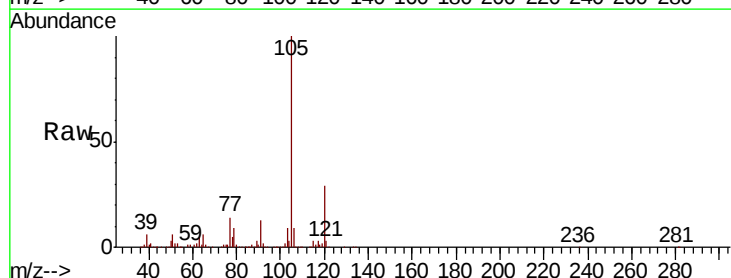
Ion Ratio Lower Upper

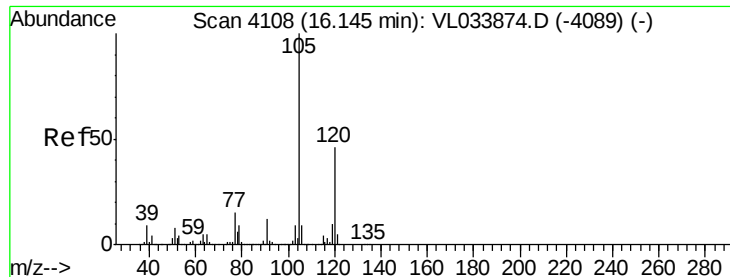
105 100

120 29.4 23.5 35.3

91 13.2 10.4 15.6

77 14.0 11.7 17.5

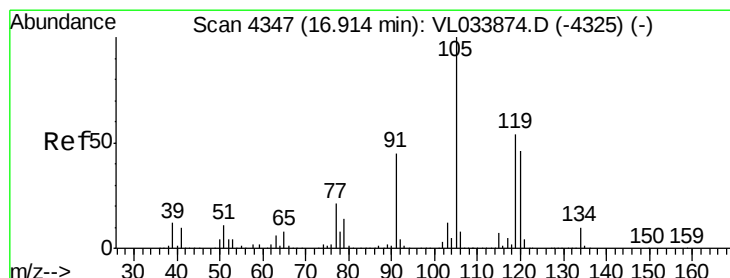
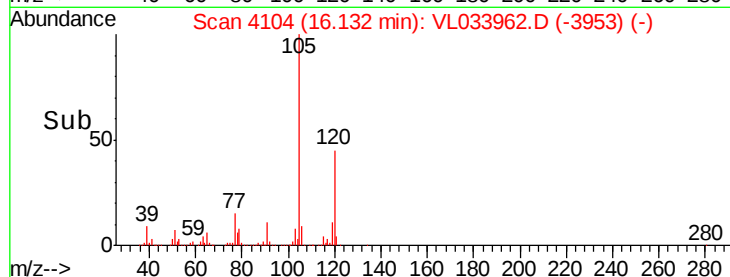
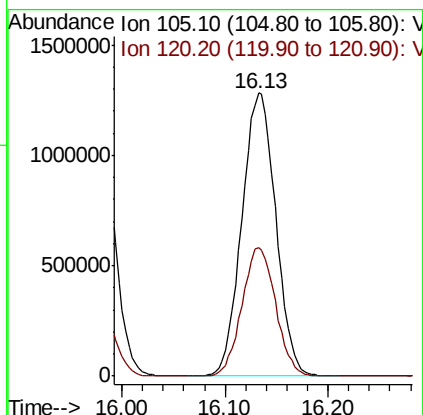
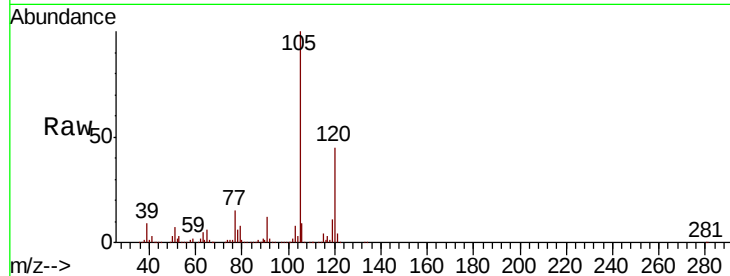




#73
 1,3,5-Trimethylbenzene
 Concen: 9.487 ppbv
 RT: 16.13 min Scan# 4104
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

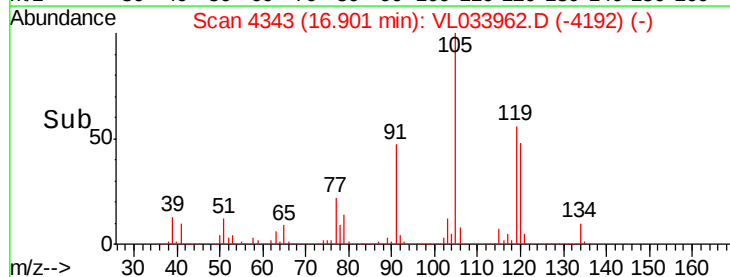
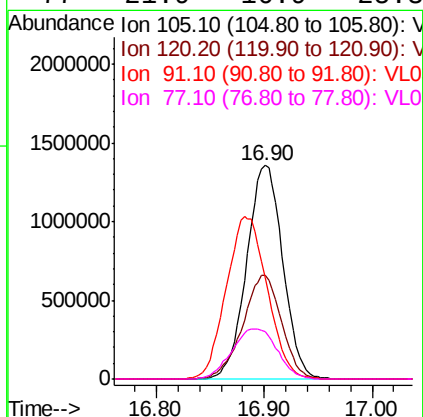
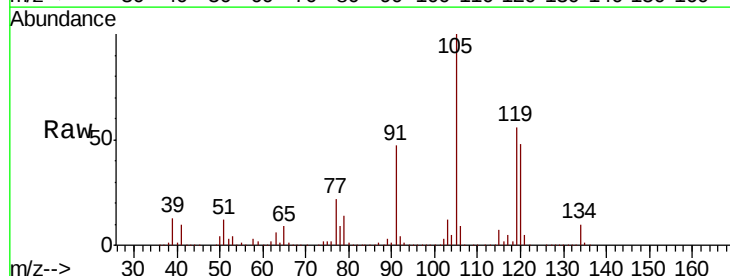
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

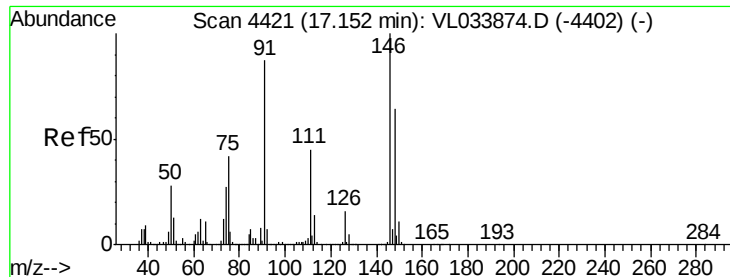
Tot Ion:105 Resp: 2919577
 Ion Ratio Lower Upper
 105 100
 120 45.3 37.1 55.7



#74
 1,2,4-Trimethylbenzene
 Concen: 8.891 ppbv
 RT: 16.90 min Scan# 4343
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion:105 Resp: 3153748
 Ion Ratio Lower Upper
 105 100
 120 48.3 36.7 55.1
 91 47.2 35.8 53.8
 77 21.9 16.9 25.3





#75

1,3-Dichlorobenzene

Concen: 8.230 ppbv

RT: 17.14 min Scan# 4417

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

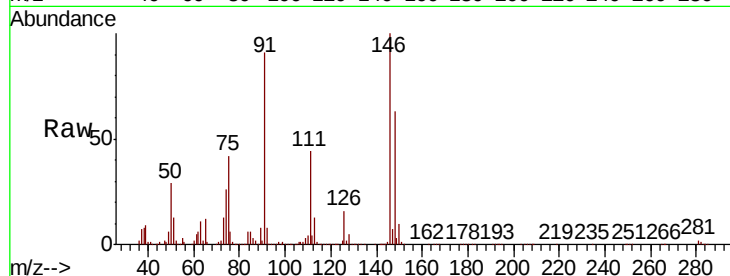
Tot Ion:146 Resp: 1828107

Ion Ratio Lower Upper

146 100

111 45.5 22.8 68.3

148 64.0 32.2 96.6

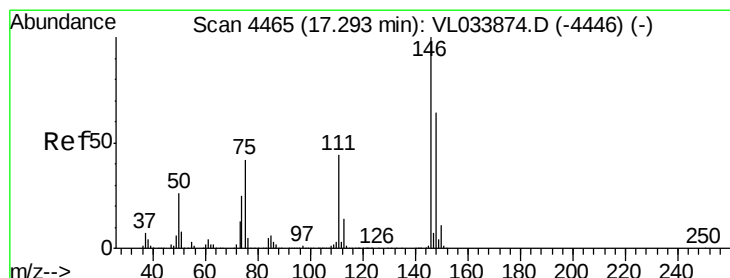
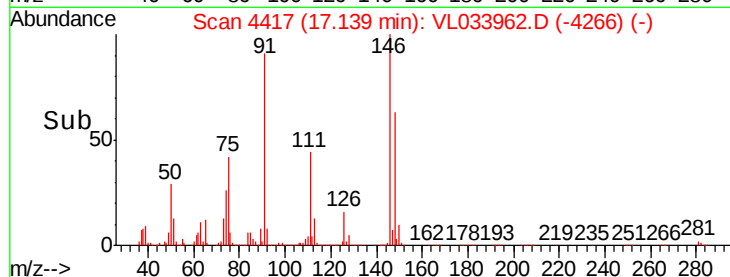
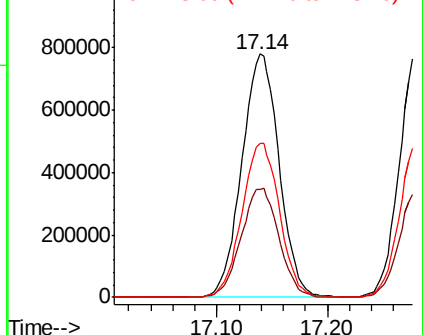


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.767 ppbv

RT: 17.28 min Scan# 4461

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

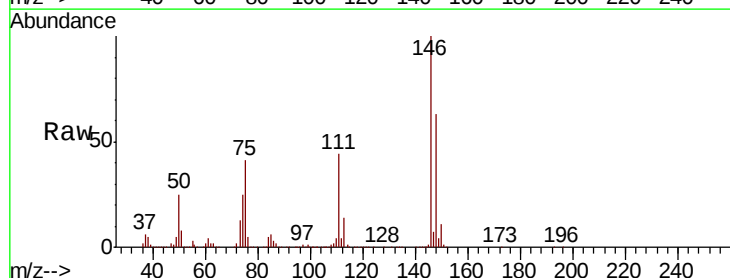
Tgt Ion:146 Resp: 1788006

Ion Ratio Lower Upper

146 100

111 43.9 22.1 66.5

148 64.1 32.4 97.0

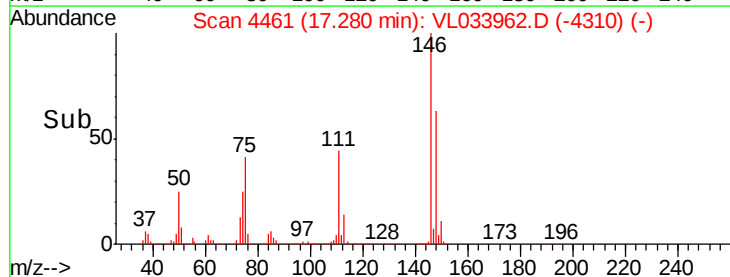
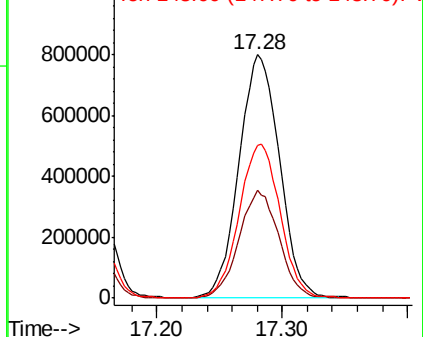


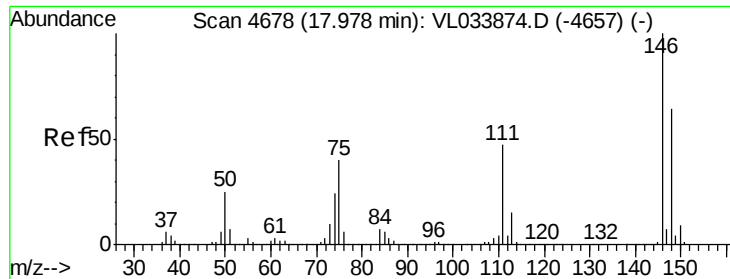
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.428 ppbv

RT: 17.96 min Scan# 4673

Delta R.T. -0.02 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

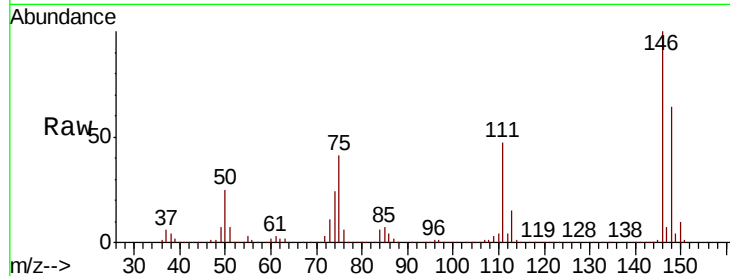
Tot Ion:146 Resp: 1727587

Ion Ratio Lower Upper

146 100

111 47.0 23.4 70.0

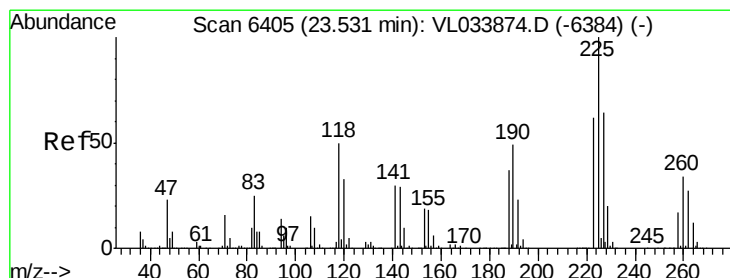
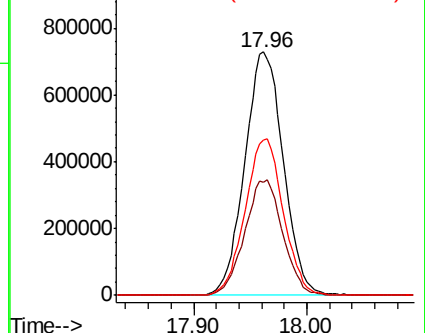
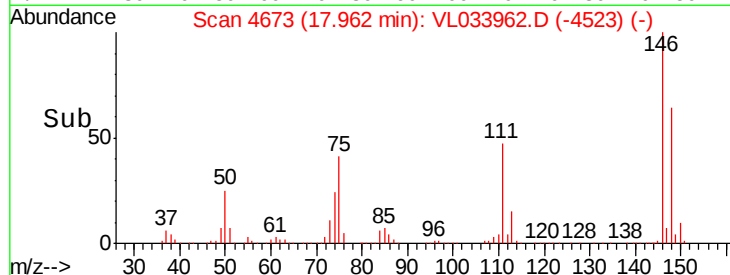
148 63.7 31.8 95.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.481 ppbv

RT: 23.52 min Scan# 6401

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

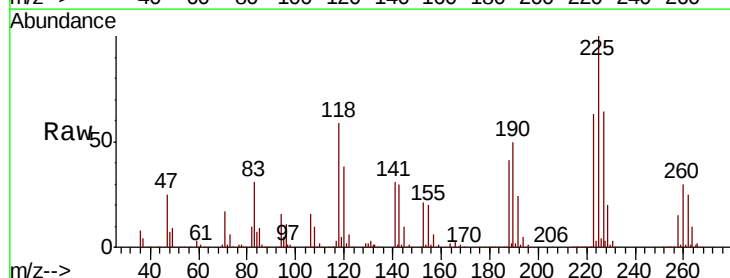
Tgt Ion:225 Resp: 1197766

Ion Ratio Lower Upper

225 100

223 63.9 50.8 76.2

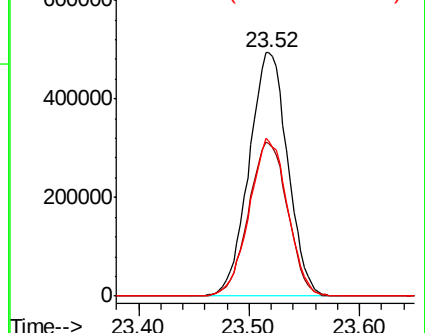
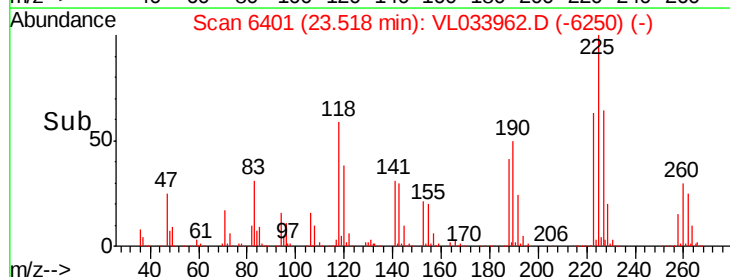
227 64.2 51.8 77.6

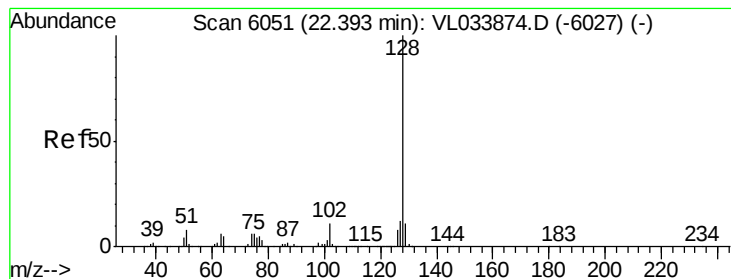


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 7.850 ppbv

RT: 22.38 min Scan# 6047

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

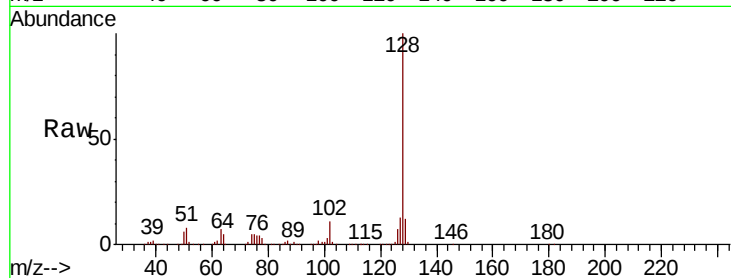
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2225497

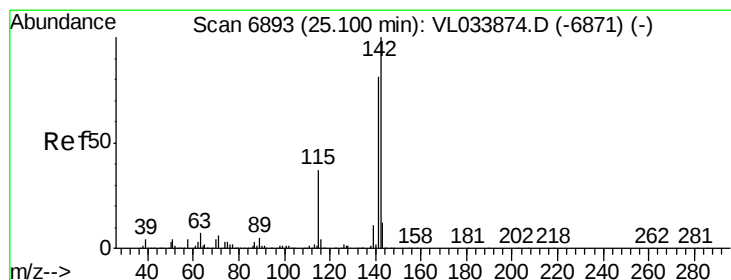
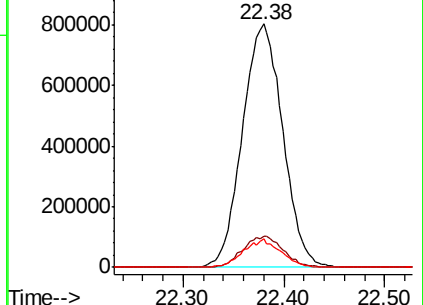
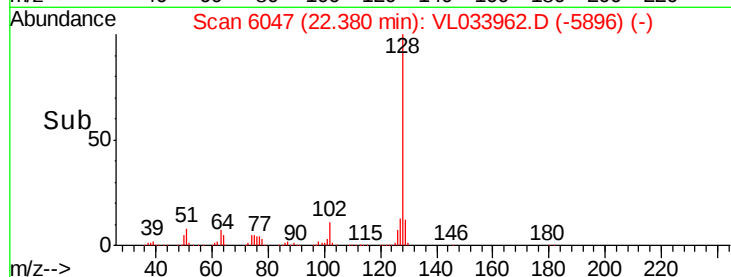
Ion	Ratio	Lower	Upper
128	100		
127	12.7	9.7	14.5
129	11.6	8.6	12.8



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: 7.119 ppbv

RT: 25.09 min Scan# 6891

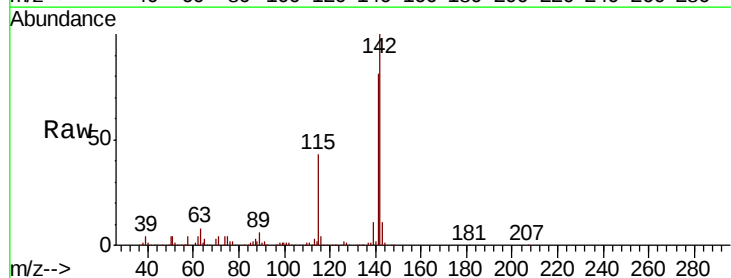
Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Tgt Ion:142 Resp: 805337

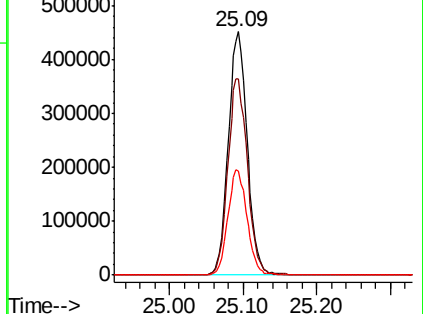
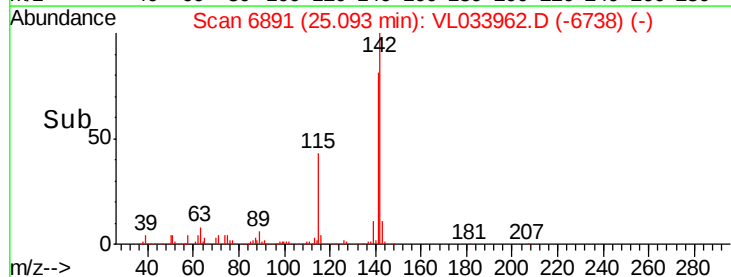
Ion	Ratio	Lower	Upper
142	100		
141	83.7	65.7	98.5
115	43.6	28.9	43.3#

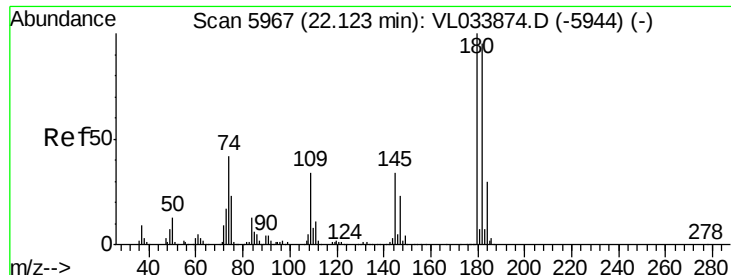


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 7.385 ppbv

RT: 22.10 min Scan# 5961

Delta R.T. -0.02 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:180 Resp: 1321904

Ion Ratio Lower Upper

180 100

182 95.6 76.9 115.3

184 30.6 24.5 36.7

