

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031519\
 Data File : VL033320.D
 Acq On : 15 Mar 2019 4:51
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Quant Time: Mar 15 06:37:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 04:20:36 2019
 QLast Update : Fri Mar 15 04:20:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	875784	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2000347	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1942081	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1445556	9.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	93348	0.604	ppbv	91
3) Chlorodifluoromethane	3.02	51	54499	0.489	ppbv	99
4) Chloromethane	3.17	50	29532	0.491	ppbv	93
5) Vinyl Chloride	3.29	62	26768	0.439	ppbv #	83
6) Bromomethane	3.52	94	18161	0.498	ppbv	96
7) Chloroethane	3.60	64	7563	0.350	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	73960	0.510	ppbv	95
9) Propene	3.04	41	23959	0.480	ppbv	97
10) Heptane	8.25	43	57480	0.465	ppbv	98
11) Trichlorofluoromethane	4.01	101	82766	0.516	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	53199	0.492	ppbv	98
13) Ethanol	3.65	45	8009	0.512	ppbv #	38
14) Bromoethene	3.79	108	21672	0.481	ppbv	98
15) Acetone	3.91	43	86508	0.725	ppbv	100
16) 1,3-Butadiene	3.36	39	15526	0.324	ppbv #	3
17) tert-Butyl alcohol	4.35	59	856	0.041	ppbv #	73
18) 1,1-Dichloroethene	4.35	96	13047	0.275	ppbv	87
19) Isopropyl Alcohol	4.04	45	42923	0.585	ppbv #	95
20) Methylene Chloride	4.41	84	25780	0.537	ppbv	85
21) Allyl Chloride	4.48	41	33840	0.475	ppbv	96
22) trans-1,2-Dichloroethene	4.97	96	22128	0.464	ppbv	87
23) Vinyl Acetate	5.16	43	81078	0.480	ppbv #	92
24) 1,1-Dichloroethane	5.09	63	58971	0.483	ppbv	100
25) Ethyl Acetate	5.77	43	101420	0.471	ppbv	99
26) Hexane	5.78	57	23298	0.232	ppbv #	1
27) Carbon Disulfide	4.62	76	47713	0.446	ppbv #	88
28) Methyl tert-Butyl Ether	5.12	73	65353	0.463	ppbv	96
29) Chloroform	5.85	83	76158	0.485	ppbv	94
30) Cyclohexane	7.24	84	7505	0.097	ppbv #	1
31) cis-1,2-Dichloroethene	5.64	61	44705	0.466	ppbv #	89
32) 1,1,1-Trichloroethane	6.62	97	69342	0.452	ppbv	97
34) 2-Butanone	5.34	43	64901	0.482	ppbv	99
35) Carbon Tetrachloride	7.14	117	69991	0.457	ppbv	94
36) Benzene	7.01	78	92845	0.479	ppbv	95
37) 1,2-Dichloroethane	6.41	62	57043	0.487	ppbv	99
38) Trichloroethene	7.96	130	35166	0.455	ppbv	90
39) 1,2-Dichloropropane	7.74	63	35649	0.479	ppbv	93
40) 1,4-Dioxane	7.97	88	958	0.036	ppbv #	1
41) Tetrahydrofuran	6.18	42	34992	0.461	ppbv	96
42) Bromodichloromethane	7.91	83	72785	0.444	ppbv	95
43) Methyl Methacrylate	8.14	69	33306	0.431	ppbv	99

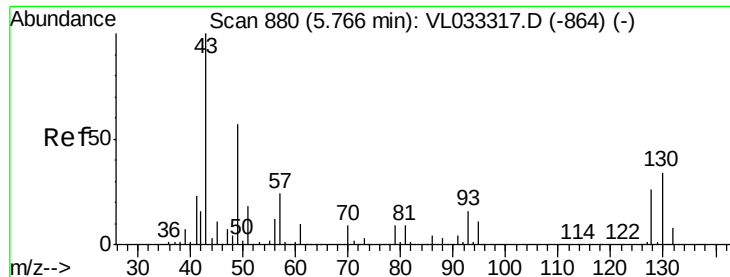
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031519\
 Data File : VL033320.D
 Acq On : 15 Mar 2019 4:51
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Instrument :
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 VSTDIC0.5

Quant Time: Mar 15 06:37:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 04:20:36 2019
 QLast Update : Fri Mar 15 04:20:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	151724	0.457	ppbv	97
45) t-1,3-Dichloropropene	9.42	75	34361	0.379	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	23799	0.218	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	22758	0.286	ppbv	90
48) Dibromochloromethane	10.45	129	25487	0.190	ppbv #	1
49) Bromoform	13.20	173	46200	0.406	ppbv	98
50) 4-Methyl-2-Pentanone	8.89	43	92193	0.465	ppbv	98
51) 2-Hexanone	10.29	43	34124	0.223	ppbv #	29
52) Tetrachloroethene	11.37	164	33849	0.424	ppbv #	81
53) Toluene	9.95	91	98013	0.442	ppbv	96
54) 1,2-Dibromoethane	10.76	107	56501	0.434	ppbv	89
56) 1,1,1,2-Tetrachloroethane	12.28	131	29982	0.342	ppbv #	1
57) Chlorobenzene	12.30	112	84715	0.538	ppbv	93
58) Ethyl Benzene	12.87	91	137120	0.490	ppbv	97
59) m/p-Xylene	13.16	91	80165	0.341	ppbv #	1
60) o-Xylene	13.85	91	116831	0.513	ppbv	98
61) Styrene	13.69	104	73474	0.461	ppbv	97
62) Isopropylbenzene	14.83	105	161662	0.505	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	88112	0.537	ppbv	99
64) n-propylbenzene	15.73	120	39317	0.494	ppbv #	63
65) tert-Butylbenzene	16.91	119	158059	0.583	ppbv	97
66) Benzyl Chloride	17.16	91	12856	0.117	ppbv #	22
67) sec-Butylbenzene	17.47	105	230565	0.591	ppbv	99
69) p-Isopropyltoluene	17.82	119	98201	0.315	ppbv #	47
70) n-Butylbenzene	18.72	91	194604	0.595	ppbv	97
71) 2-Chlorotoluene	15.61	91	66173	0.276	ppbv #	45
72) 4-Ethyltoluene	16.00	105	133872	0.546	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	138762	0.603	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	150902	0.642	ppbv #	93
75) 1,3-Dichlorobenzene	17.16	146	49790	0.338	ppbv #	29
76) 1,4-Dichlorobenzene	17.31	146	83196	0.578	ppbv	96
77) 1,2-Dichlorobenzene	17.99	146	82270	0.572	ppbv	94
78) Hexachloro-1,3-Butadiene	23.54	225	54047	0.547	ppbv	99
79) Naphthalene	22.42	128	129016	0.675	ppbv	95
80) Naphthalene,2-methyl-	25.13	142	55826	1.009	ppbv	94
81) 1,2,4-Trichlorobenzene	22.13	180	24165	0.222	ppbv #	12

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

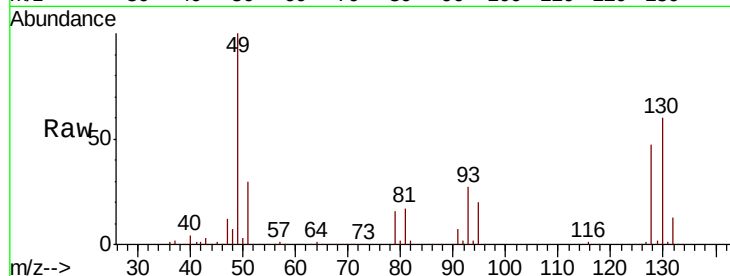
Tgt Ion: 49 Resp: 875784

Ion Ratio Lower Upper

49 100

128 46.4 23.2 69.6

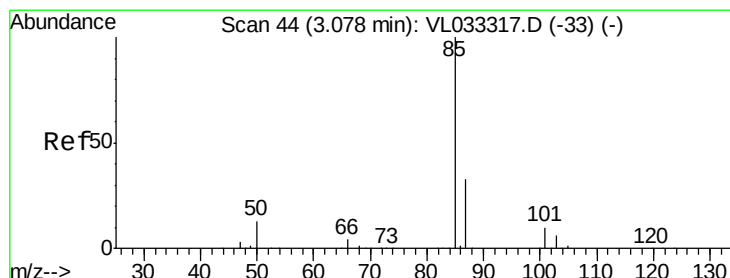
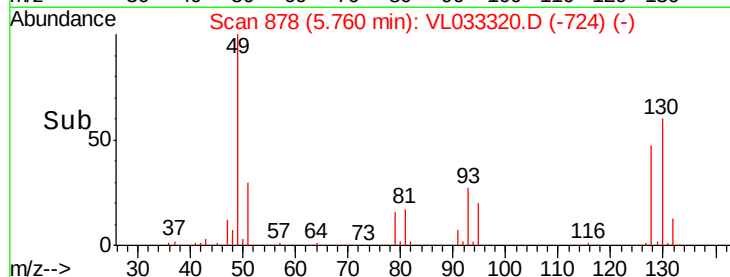
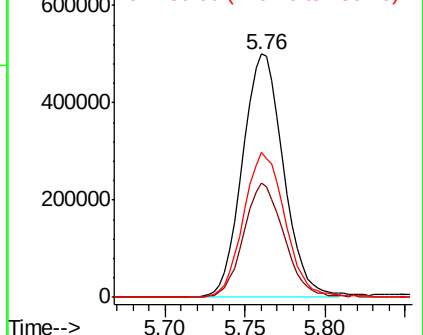
130 61.1 30.1 90.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.604 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033320.D

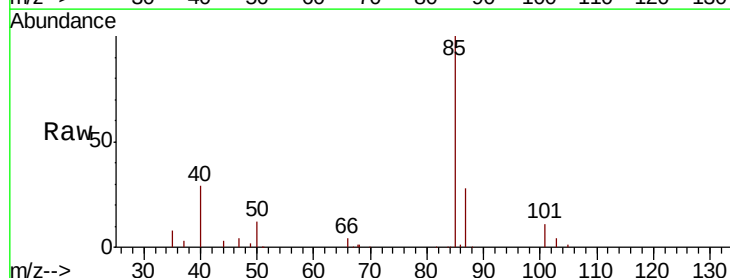
Acq: 15 Mar 2019 4:51

Tgt Ion: 85 Resp: 93348

Ion Ratio Lower Upper

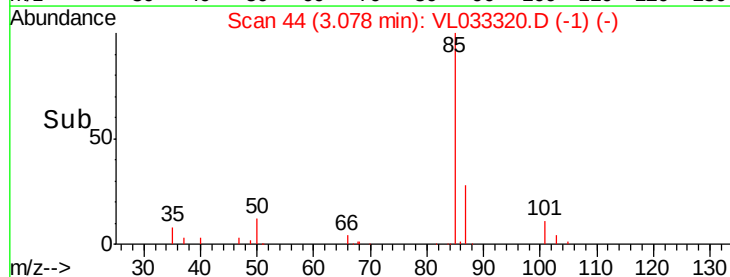
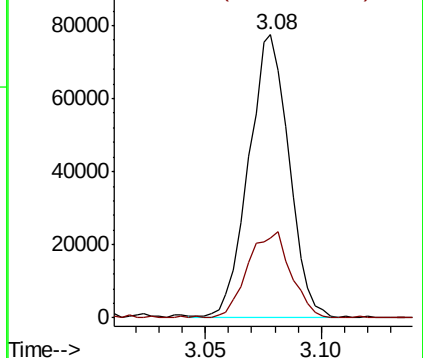
85 100

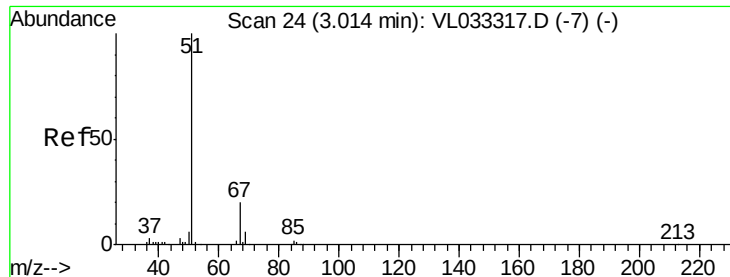
87 28.2 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.489 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

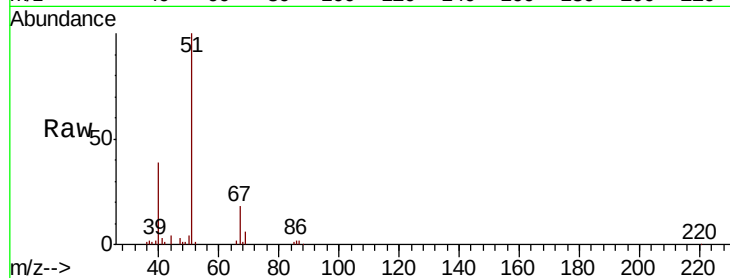
VSTDIC0.5

Tgt Ion: 51 Resp: 54499

Ion Ratio Lower Upper

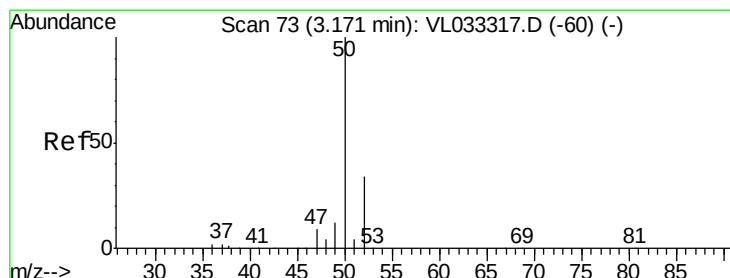
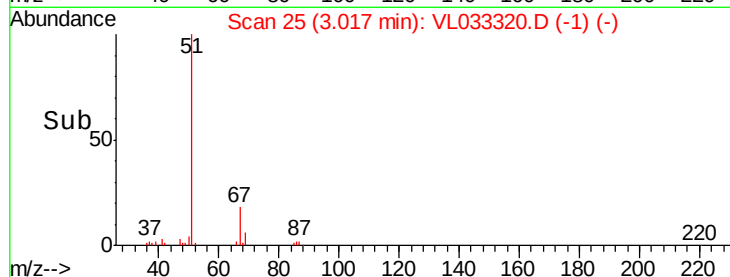
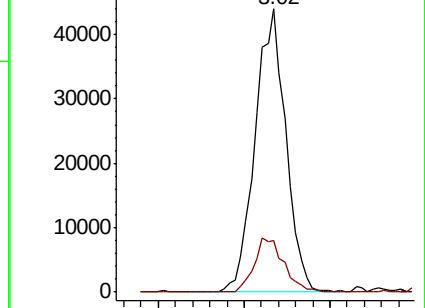
51 100

67 18.3 15.1 22.7



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.491 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033320.D

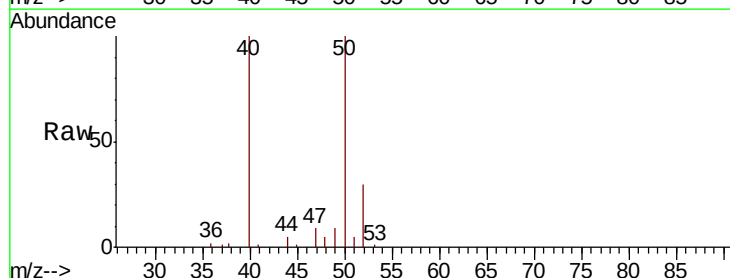
Acq: 15 Mar 2019 4:51

Tgt Ion: 50 Resp: 29532

Ion Ratio Lower Upper

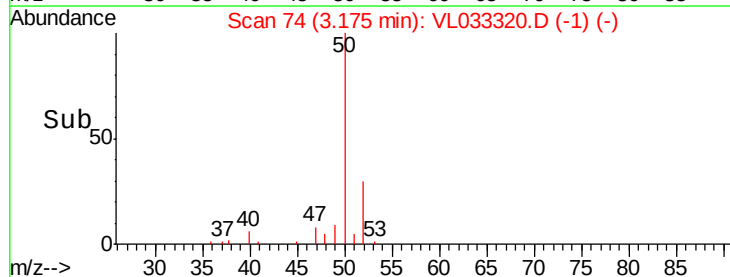
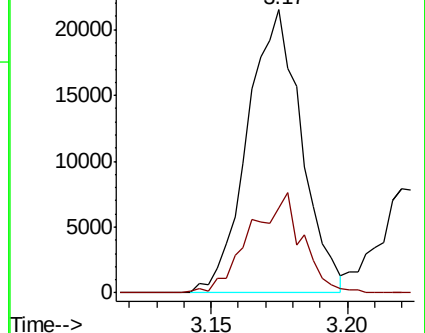
50 100

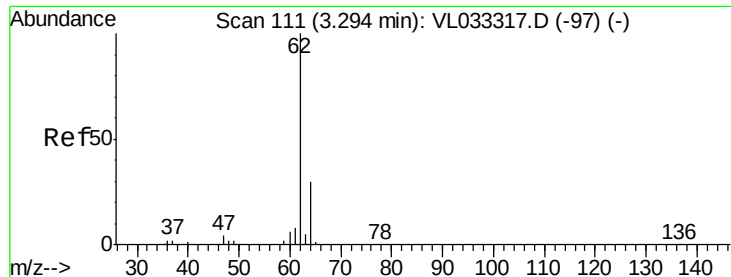
52 29.4 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.439 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

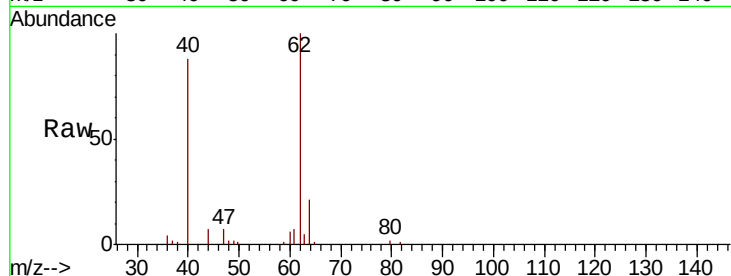
VSTDIC0.5

Tgt Ion: 62 Resp: 26768

Ion Ratio Lower Upper

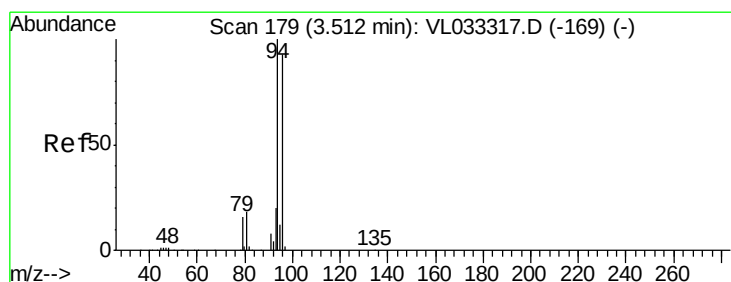
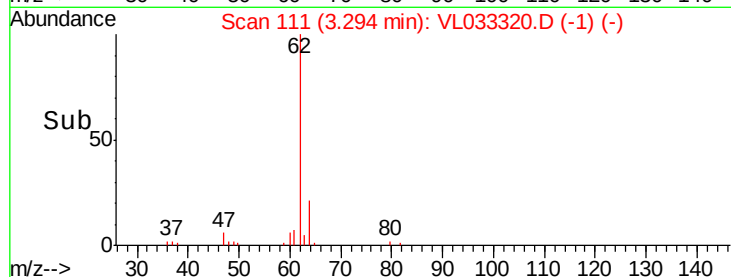
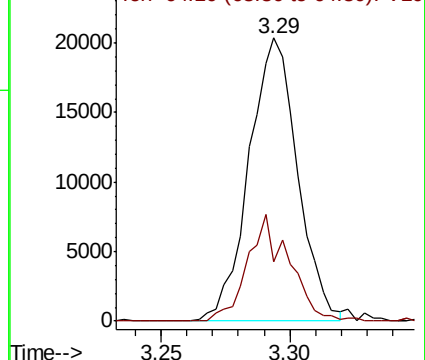
62 100

64 21.2 24.3 36.5#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.498 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033320.D

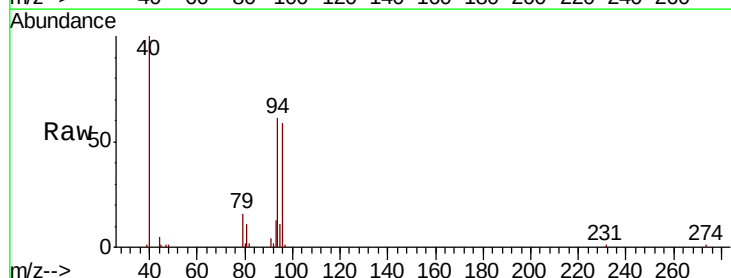
Acq: 15 Mar 2019 4:51

Tgt Ion: 94 Resp: 18161

Ion Ratio Lower Upper

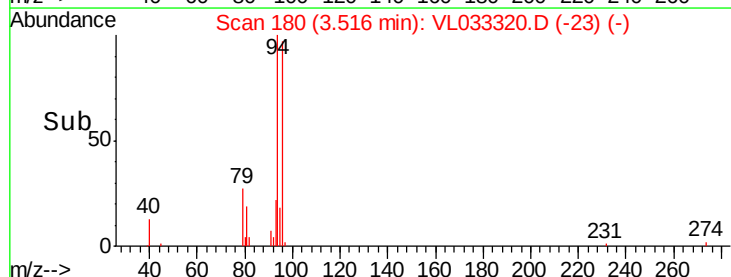
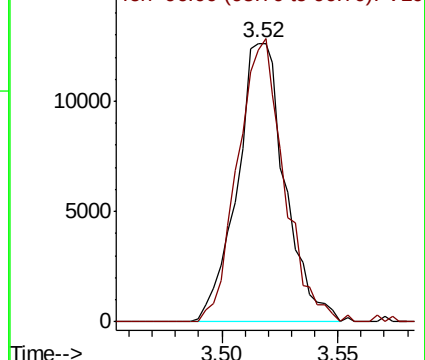
94 100

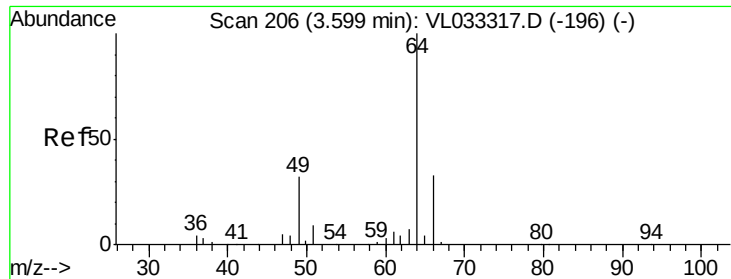
96 97.5 74.8 112.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.350 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

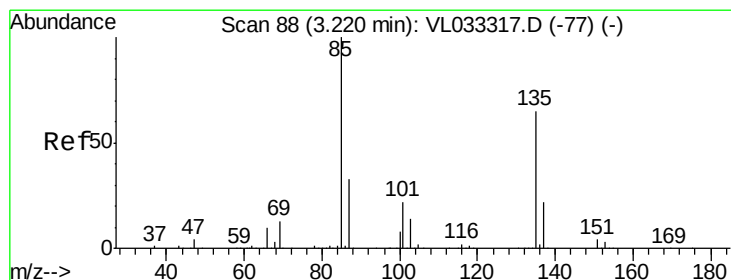
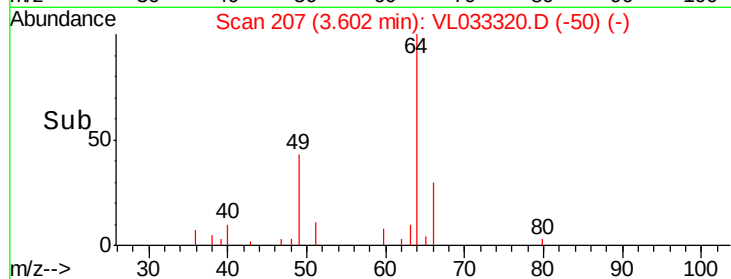
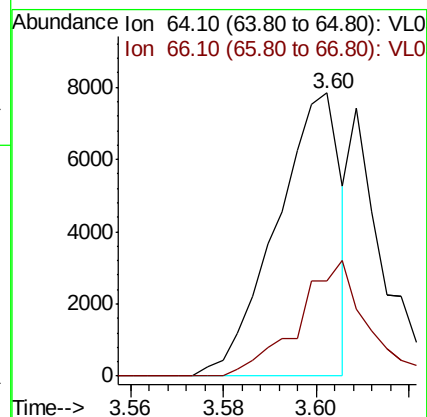
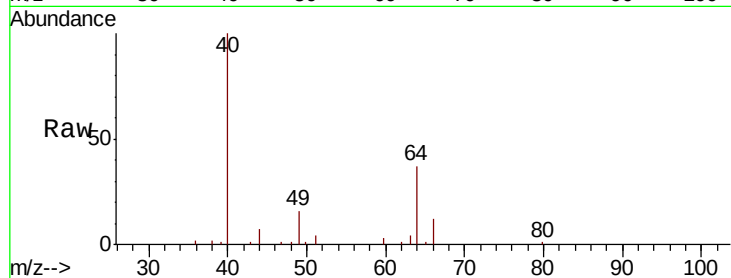
VSTDIC0.5

Tgt Ion: 64 Resp: 7563

Ion Ratio Lower Upper

64 100

66 33.6 26.6 39.8



#8

Dichlorotetrafluoroethane

Concen: 0.510 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033320.D

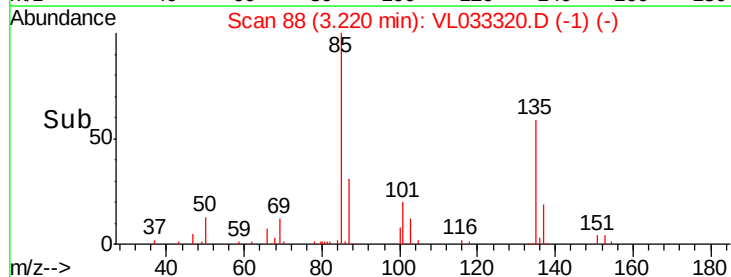
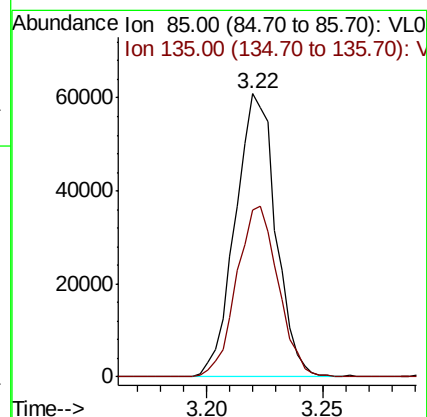
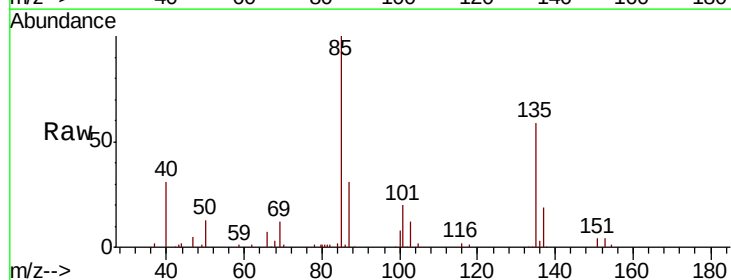
Acq: 15 Mar 2019 4:51

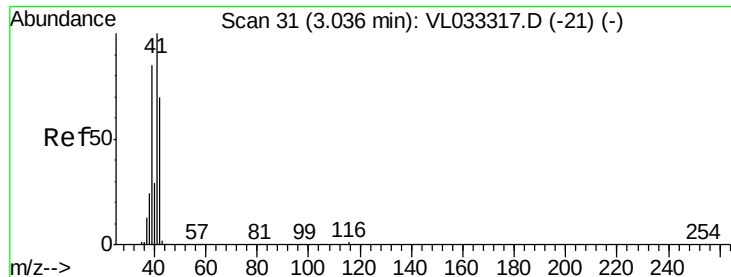
Tgt Ion: 85 Resp: 73960

Ion Ratio Lower Upper

85 100

135 61.9 52.6 79.0





#9

Propene

Concen: 0.480 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

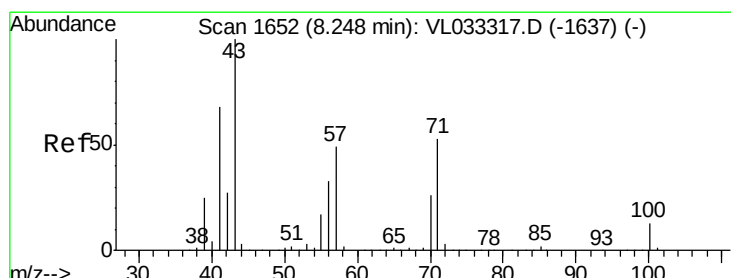
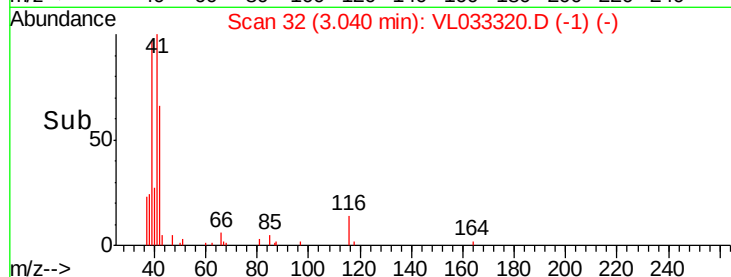
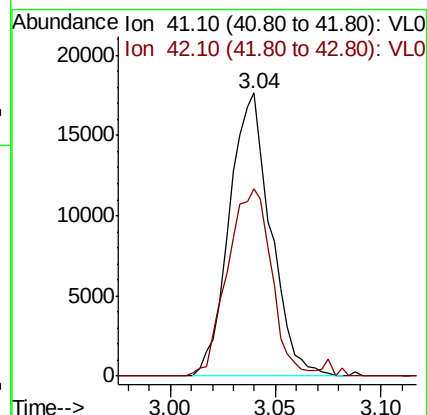
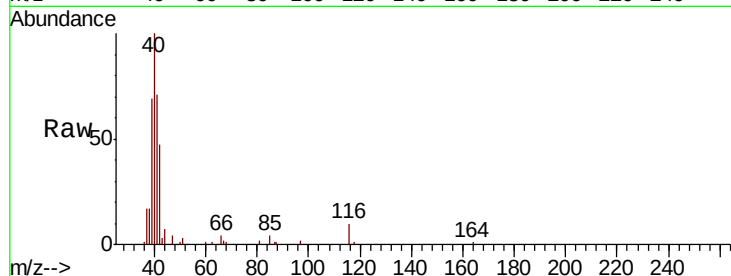
VSTDIC0.5

Tgt Ion: 41 Resp: 23959

Ion Ratio Lower Upper

41 100

42 71.8 55.5 83.3



#10

Heptane

Concen: 0.465 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033320.D

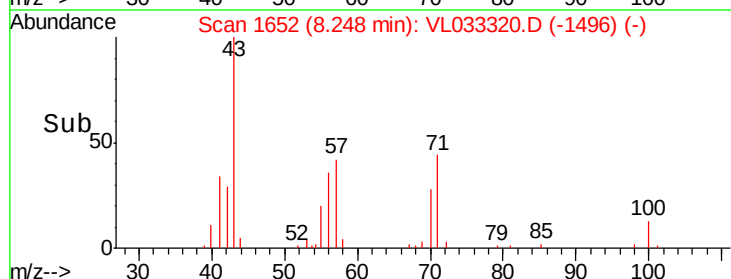
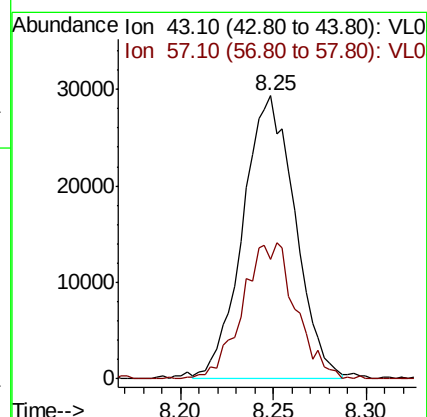
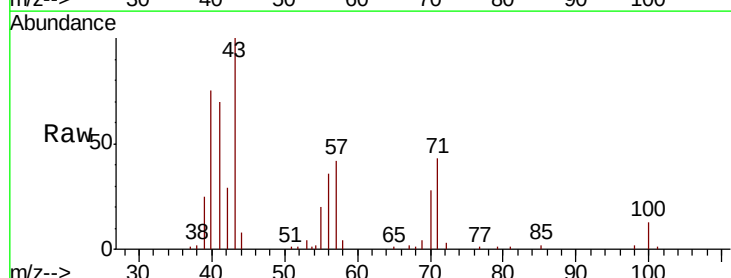
Acq: 15 Mar 2019 4:51

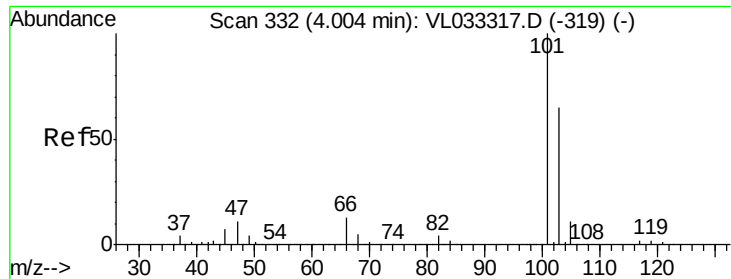
Tgt Ion: 43 Resp: 57480

Ion Ratio Lower Upper

43 100

57 49.1 40.6 61.0

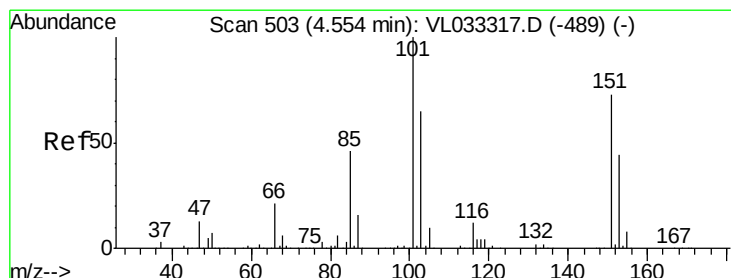
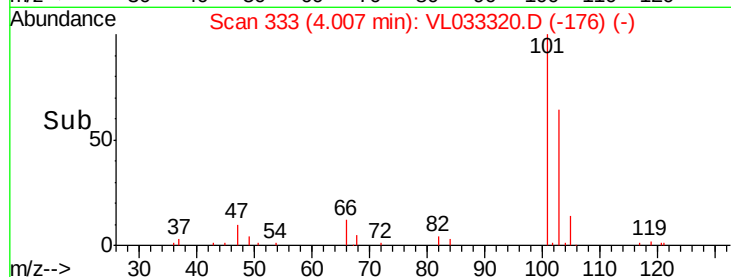
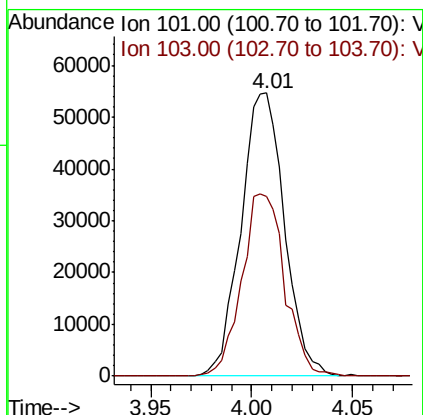
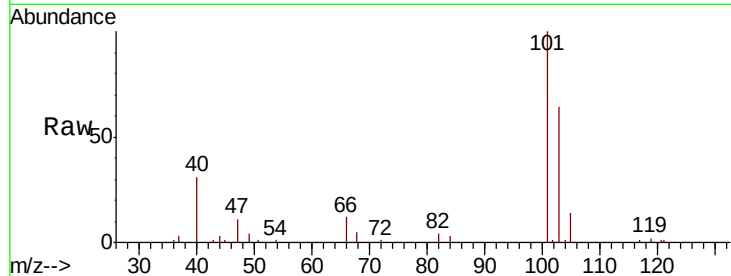




#11
 Trichlorofluoromethane
 Concen: 0.516 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

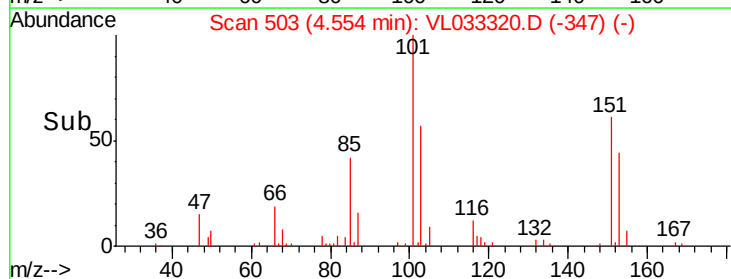
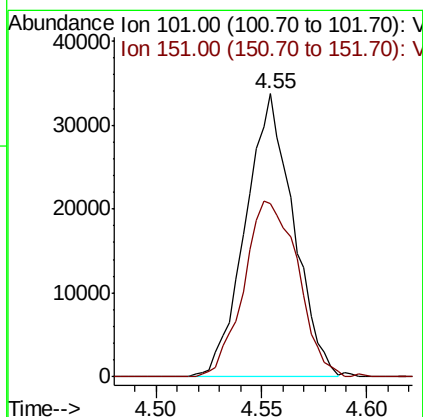
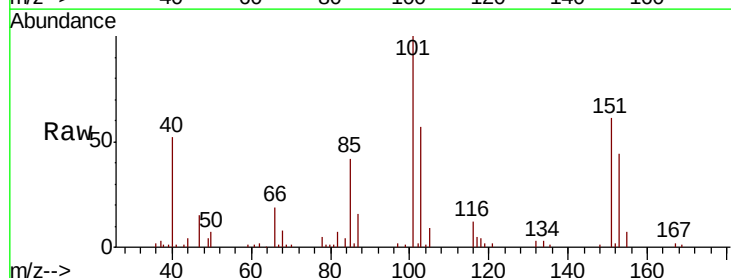
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

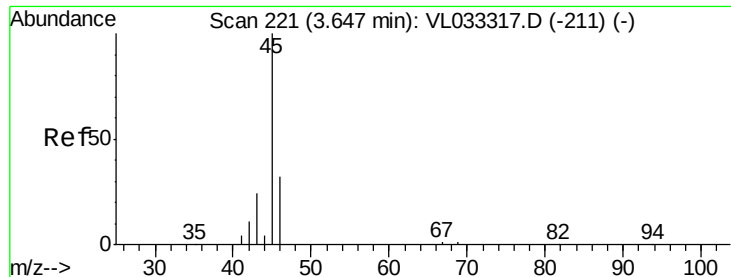
Tgt Ion:101 Resp: 82766
 Ion Ratio Lower Upper
 101 100
 103 63.5 51.8 77.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.492 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Tgt Ion:101 Resp: 53199
 Ion Ratio Lower Upper
 101 100
 151 70.2 57.2 85.8





#13

Ethanol

Concen: 0.512 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

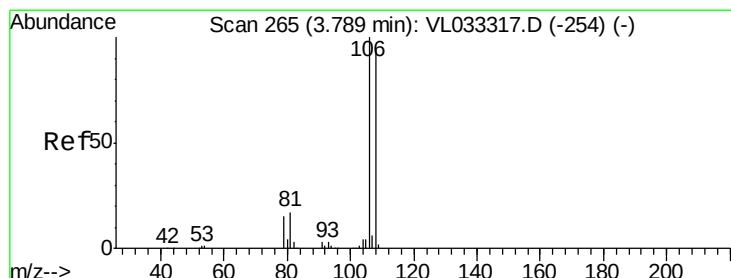
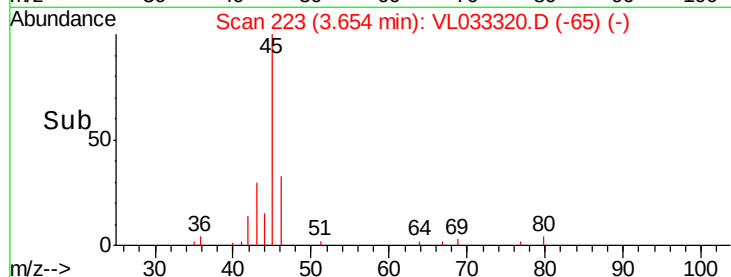
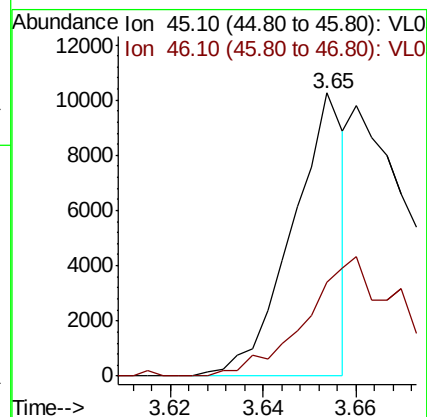
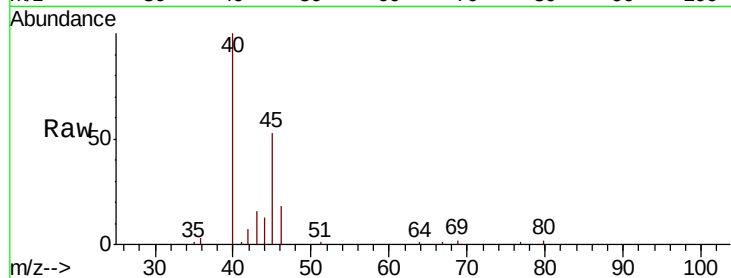
VSTDIC0.5

Tgt Ion: 45 Resp: 8009

Ion Ratio Lower Upper

45 100

46 0.0 14.7 58.9#



#14

Bromoethene

Concen: 0.481 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

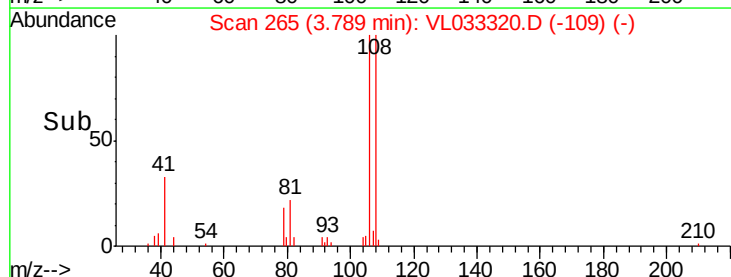
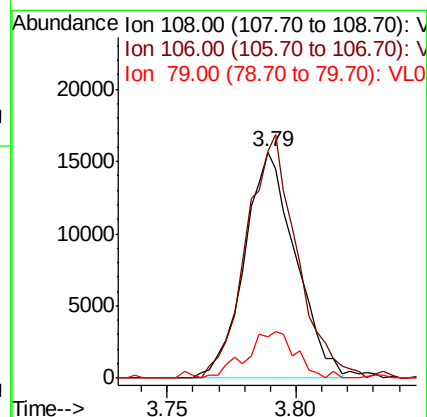
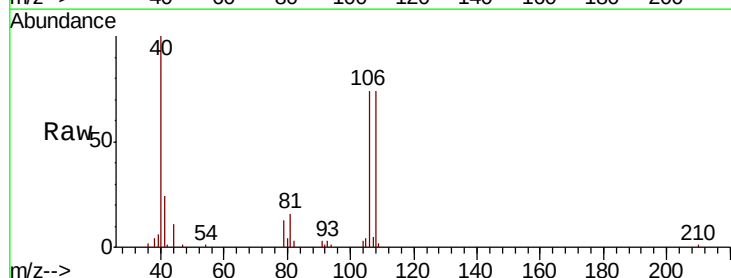
Tgt Ion: 108 Resp: 21672

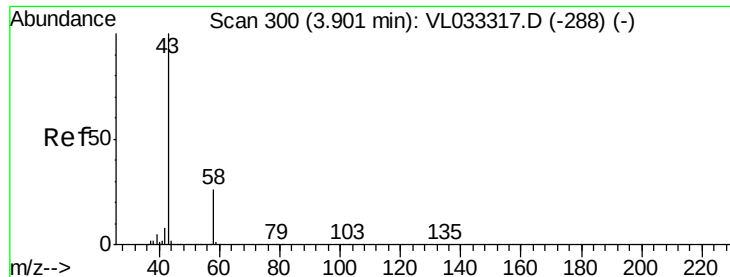
Ion Ratio Lower Upper

108 100

106 107.6 85.1 127.7

79 21.4 14.6 22.0





#15

Acetone

Concen: 0.725 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

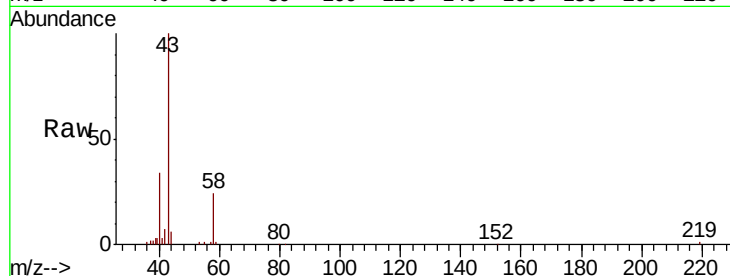
VSTDIC0.5

Tgt Ion: 43 Resp: 86508

Ion Ratio Lower Upper

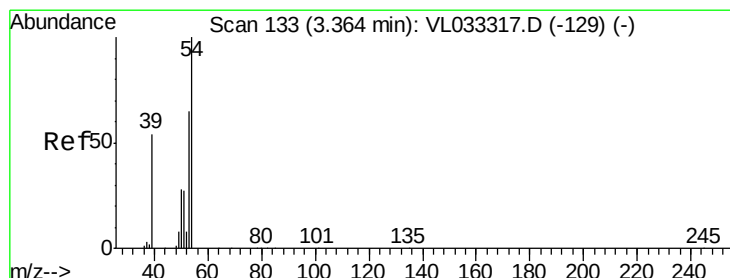
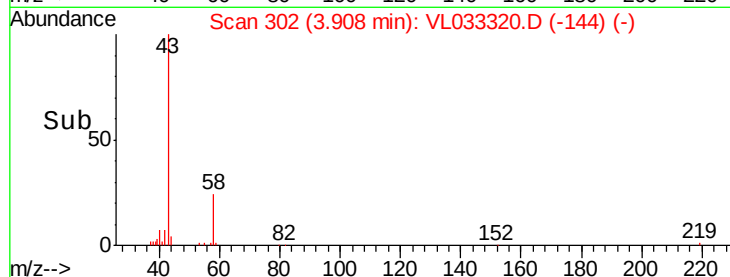
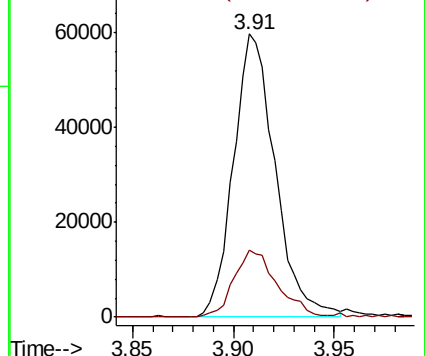
43 100

58 25.3 20.3 30.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.324 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033320.D

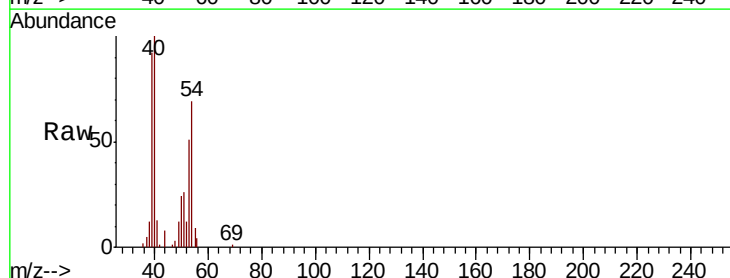
Acq: 15 Mar 2019 4:51

Tgt Ion: 39 Resp: 15526

Ion Ratio Lower Upper

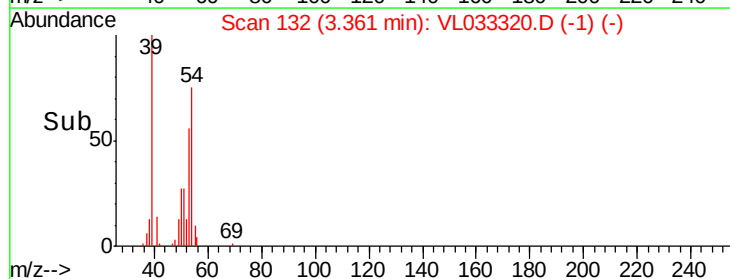
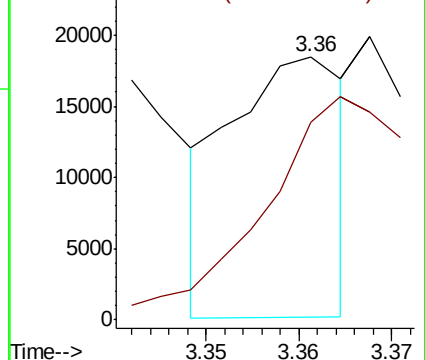
39 100

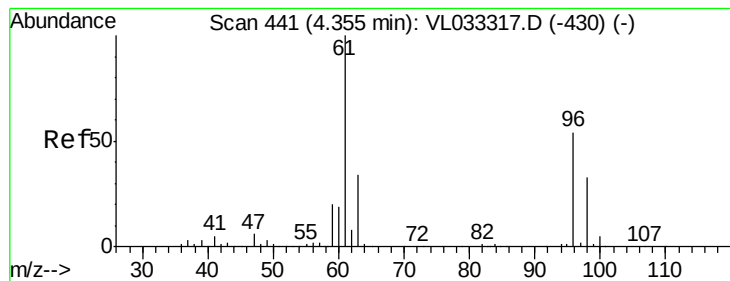
54 0.0 74.4 111.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

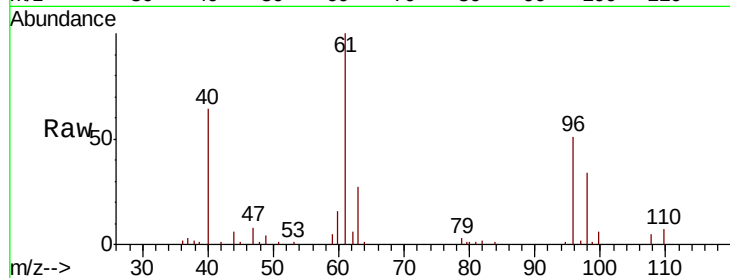
VSTDIC0.5

Tgt Ion: 59 Resp: 856

Ion Ratio Lower Upper

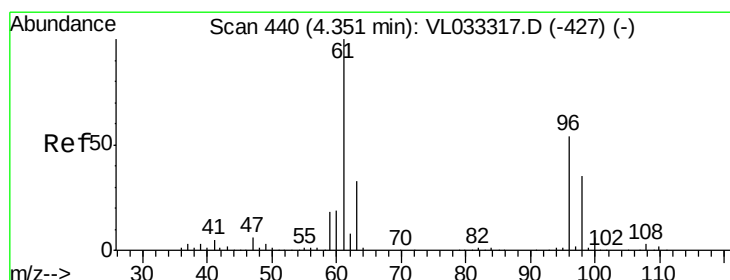
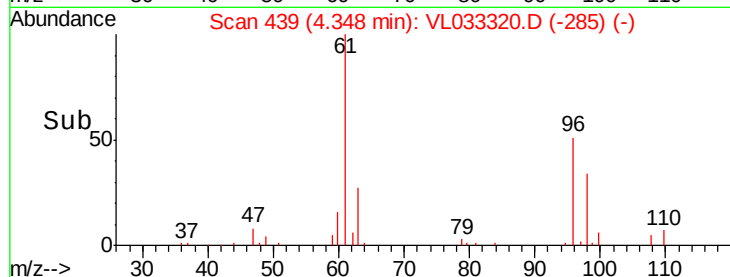
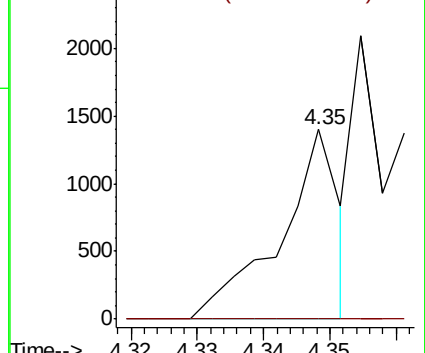
59 100

57 0.0 7.8 11.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.275 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

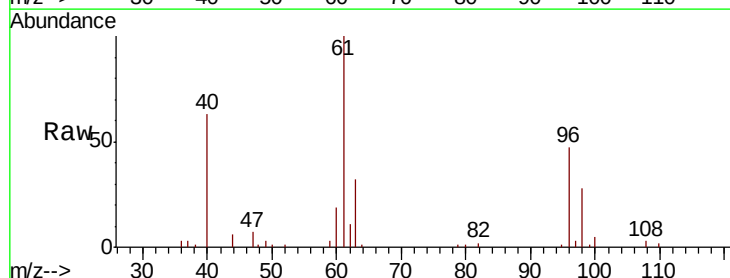
Tgt Ion: 96 Resp: 13047

Ion Ratio Lower Upper

96 100

61 209.0 148.9 223.3

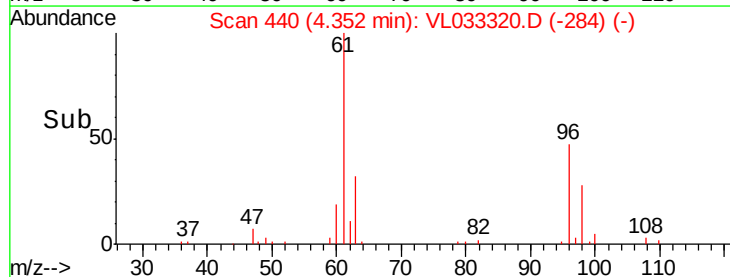
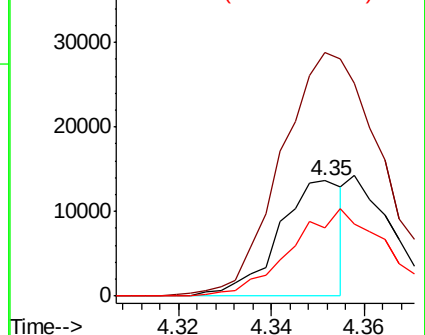
98 59.4 51.4 77.0

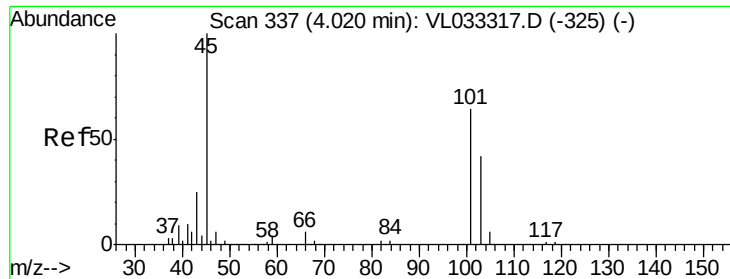


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.585 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

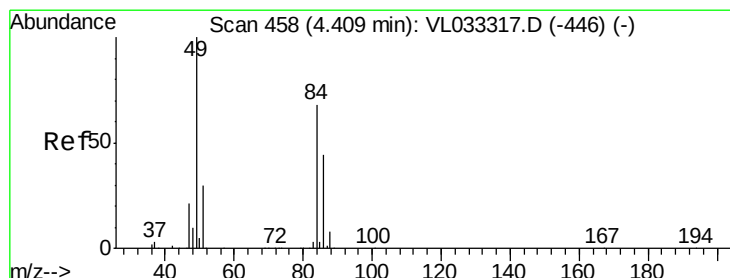
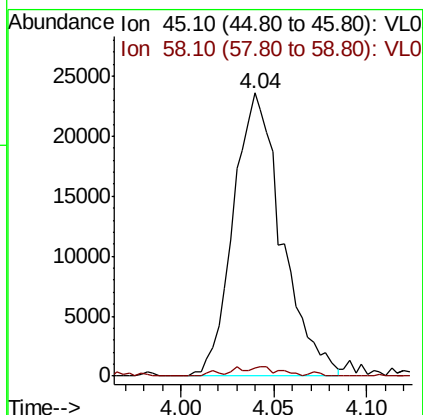
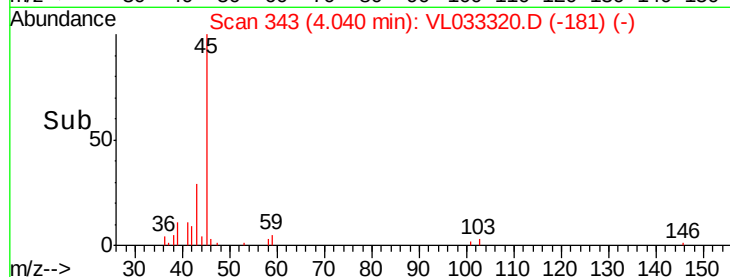
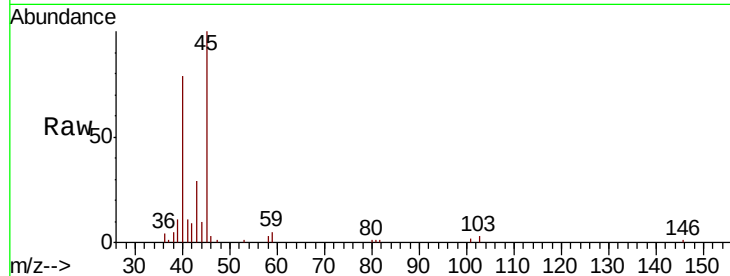
VSTDIC0.5

Tgt Ion: 45 Resp: 42923

Ion Ratio Lower Upper

45 100

58 3.6 1.6 2.4#



#20

Methylene Chloride

Concen: 0.537 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Tgt Ion: 84 Resp: 25780

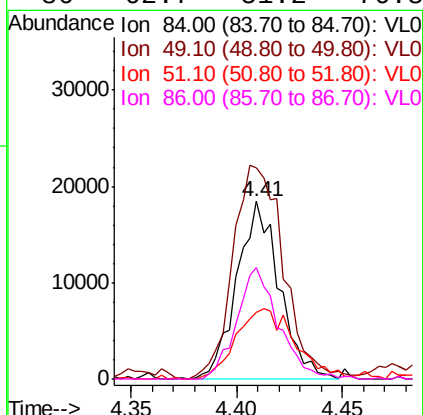
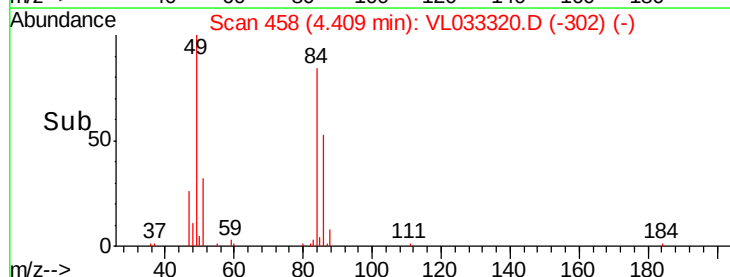
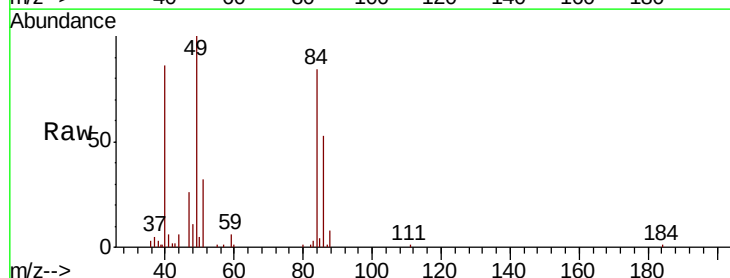
Ion Ratio Lower Upper

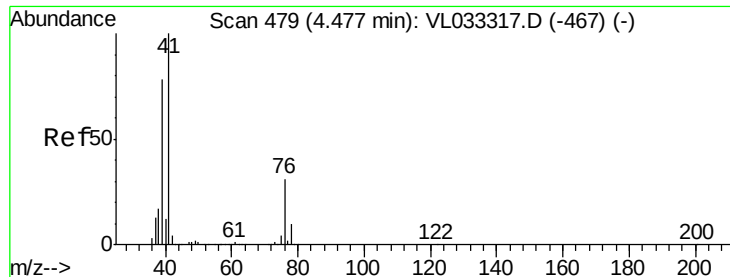
84 100

49 118.8 117.0 175.6

51 36.4 35.3 52.9

86 62.7 51.2 76.8

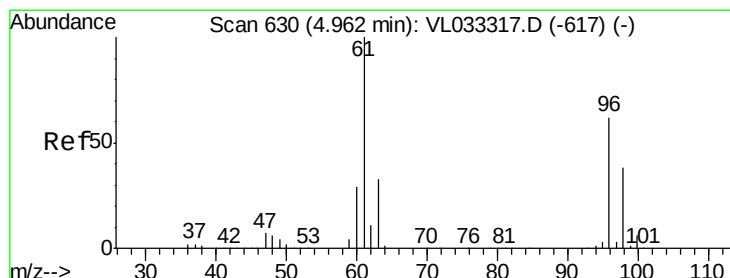
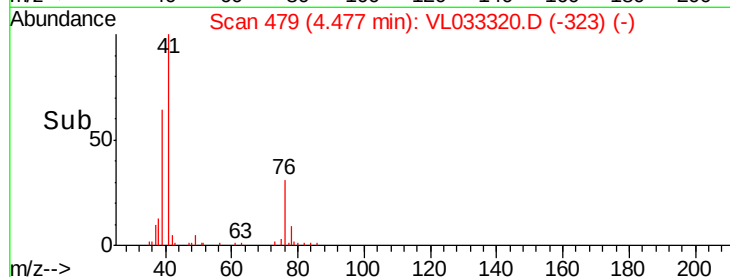
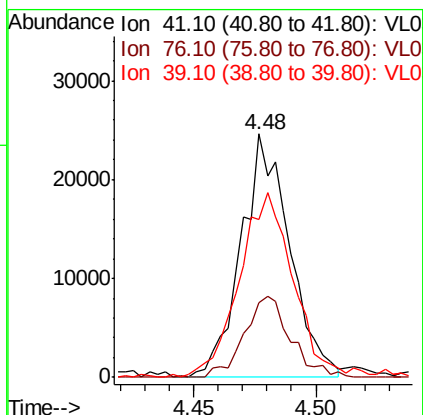
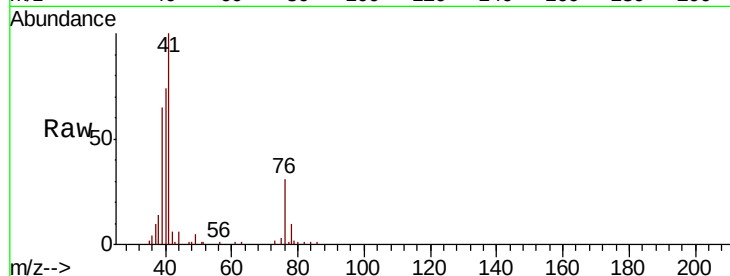




#21
 Allyl Chloride
 Concen: 0.475 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. 0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

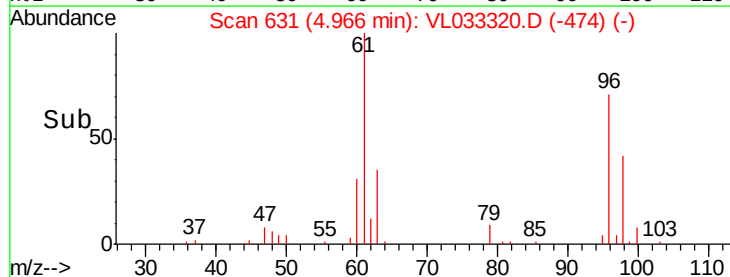
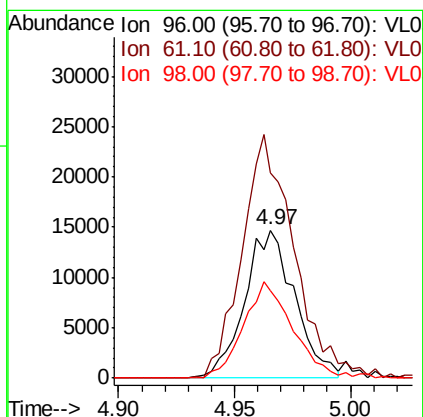
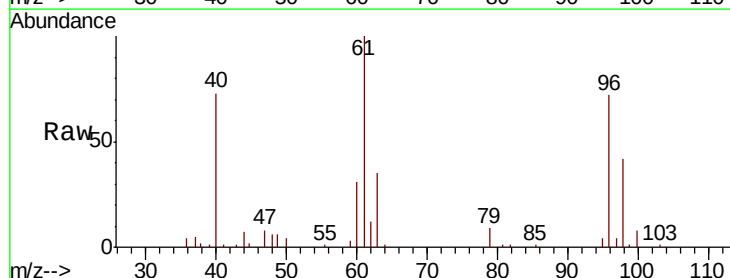
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

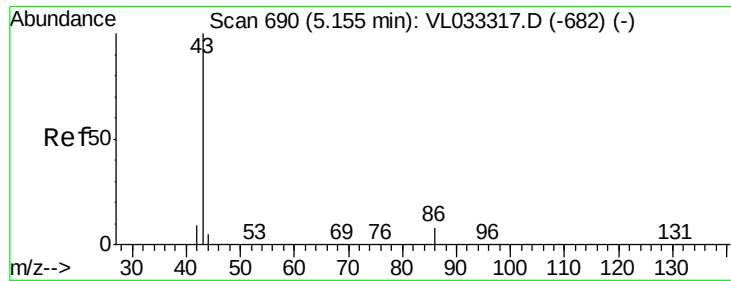
Tgt Ion: 41 Resp: 33840
 Ion Ratio Lower Upper
 41 100
 76 31.6 24.1 36.1
 39 85.1 65.0 97.4



#22
 trans-1,2-Dichloroethene
 Concen: 0.464 ppbv
 RT: 4.97 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Tgt Ion: 96 Resp: 22128
 Ion Ratio Lower Upper
 96 100
 61 139.1 129.8 194.8
 98 60.1 49.2 73.8





#23

Vinyl Acetate

Concen: 0.480 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 81078

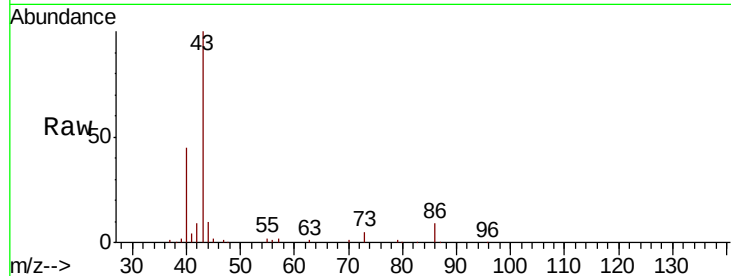
Ion Ratio Lower Upper

43 100

86 8.9 5.6 8.4#

42 6.5 7.8 11.6#

44 8.2 4.2 6.4#

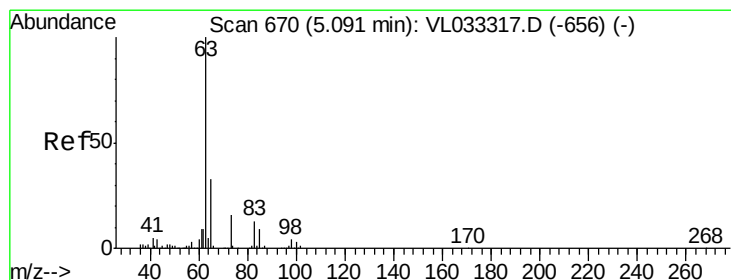
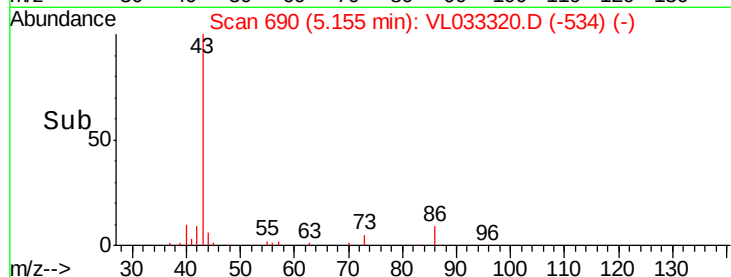
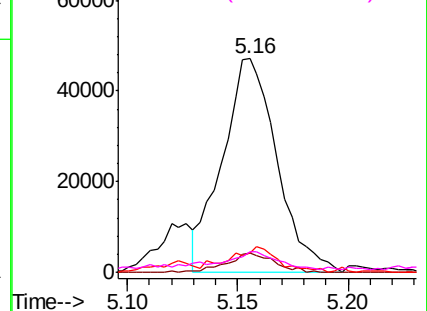


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.483 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

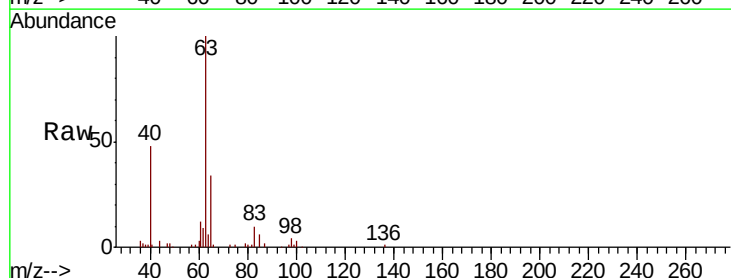
Tgt Ion: 63 Resp: 58971

Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.2

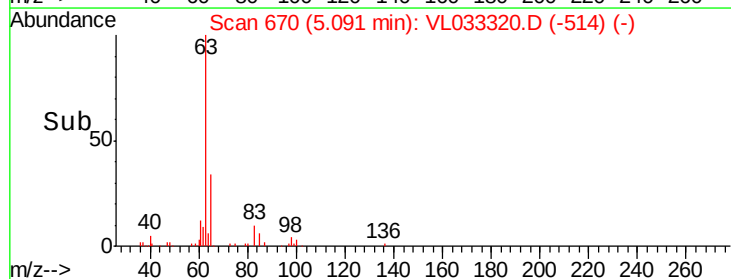
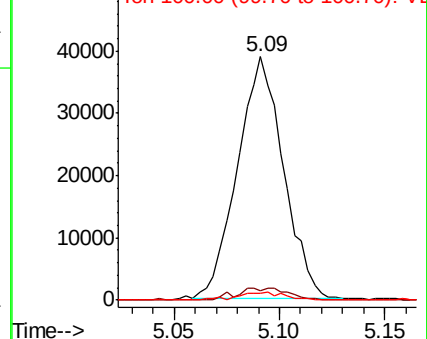
100 2.9 1.3 3.9

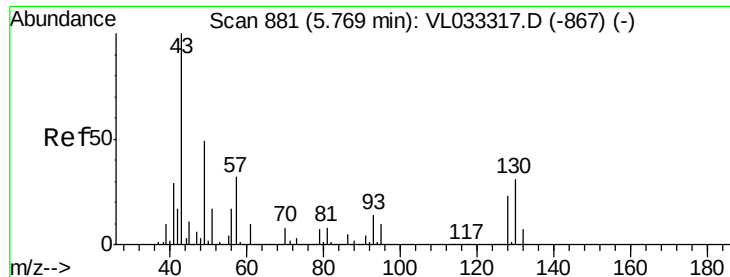


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.471 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 101420

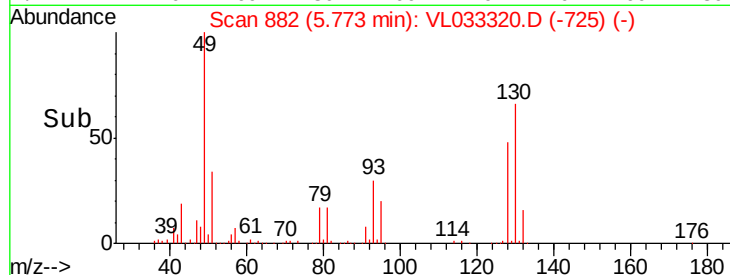
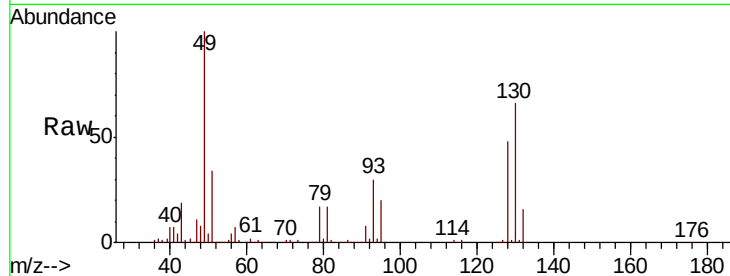
Ion Ratio Lower Upper

43 100

45 9.8 7.8 11.8

61 9.7 7.1 10.7

70 7.5 5.7 8.5

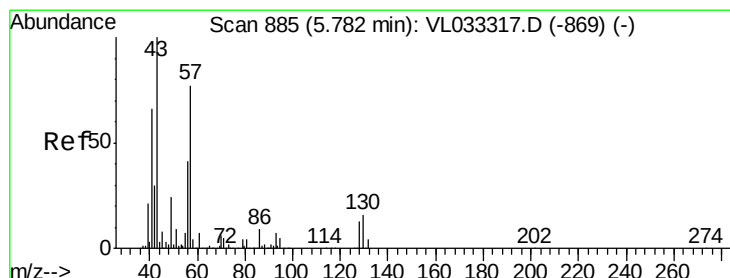
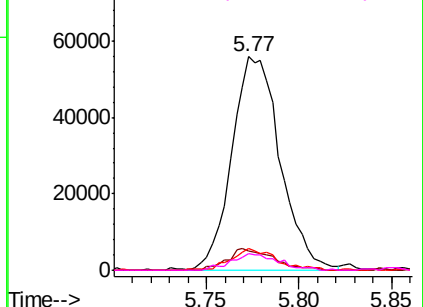


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.232 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Tgt Ion: 57 Resp: 23298

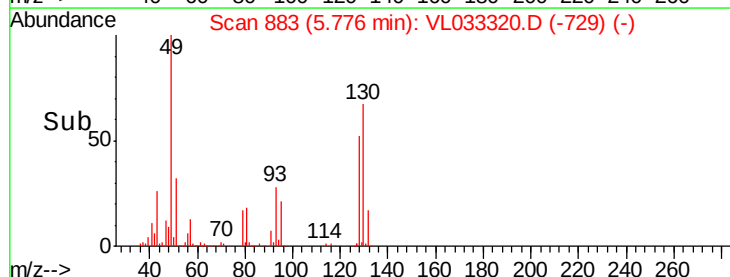
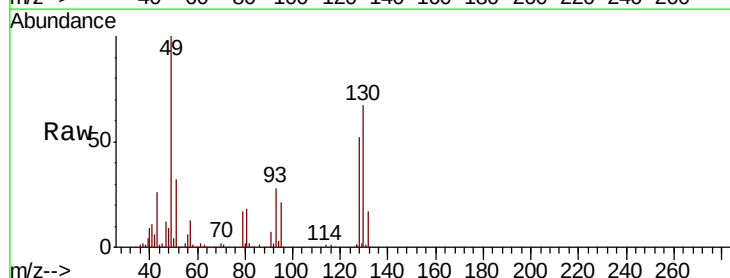
Ion Ratio Lower Upper

57 100

41 0.0 71.8 107.6#

43 440.8 182.1 273.1#

56 0.0 42.2 63.2#

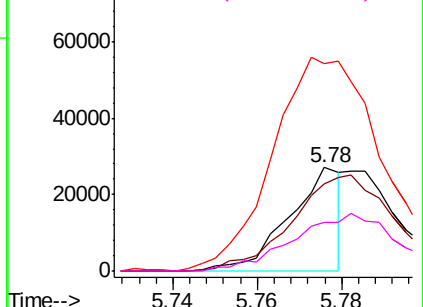


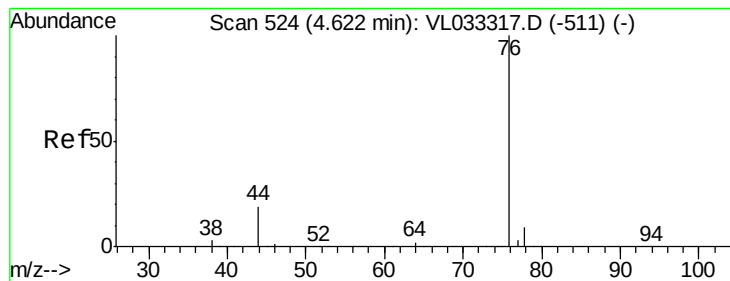
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.446 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

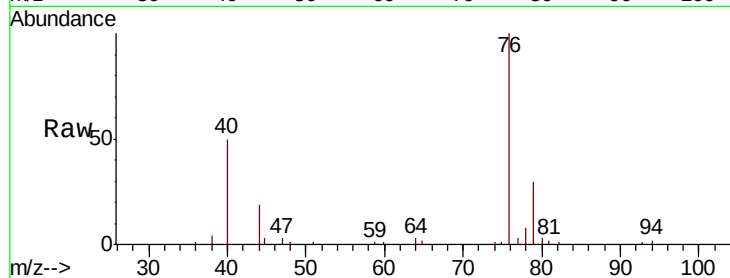
MSVOA_L

ClientSampleId :

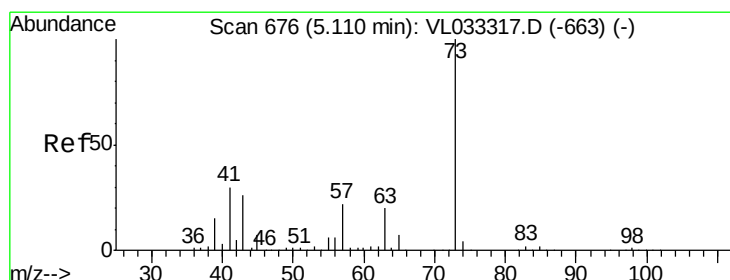
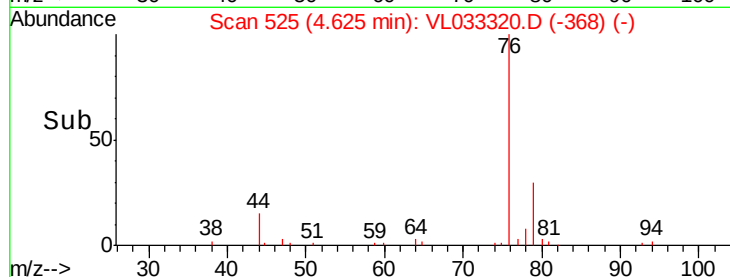
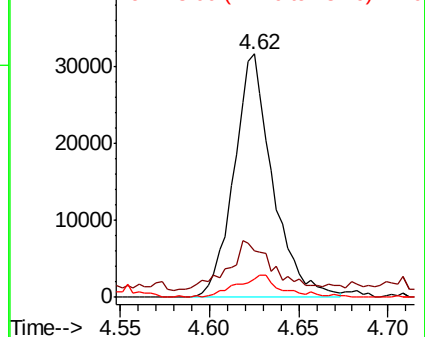
VSTDIC0.5

Tgt Ion: 76 Resp: 47713

Ion	Ratio	Lower	Upper
76	100		
44	25.6	15.0	22.6#
78	10.8	7.4	11.2



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.463 ppbv

RT: 5.12 min Scan# 680

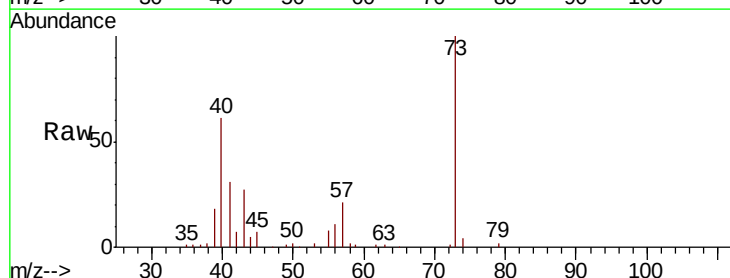
Delta R.T. 0.01 min

Lab File: VL033320.D

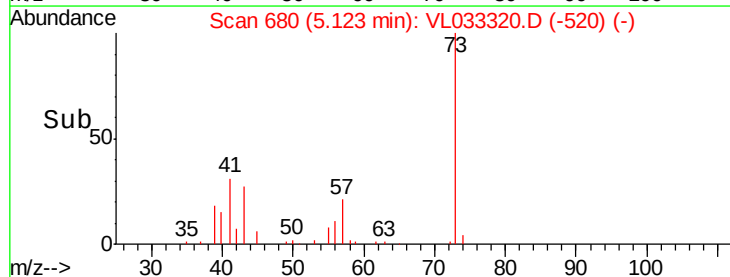
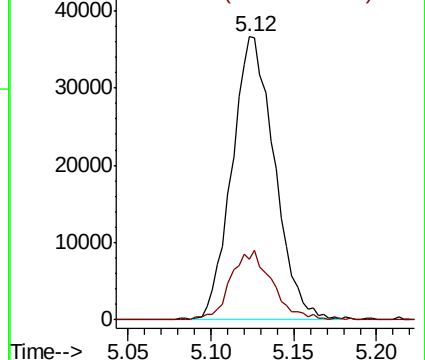
Acq: 15 Mar 2019 4:51

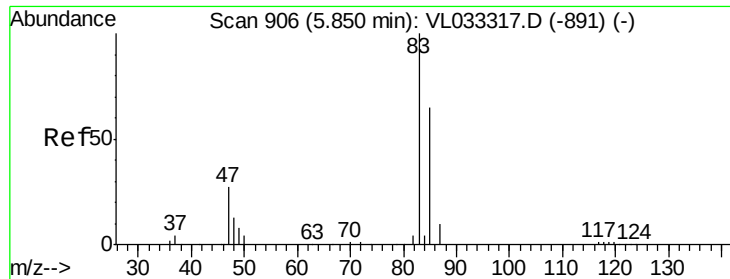
Tgt Ion: 73 Resp: 65353

Ion	Ratio	Lower	Upper
73	100		
57	24.0	17.8	26.6



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.485 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

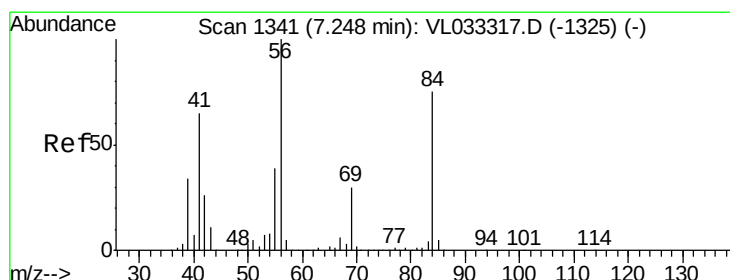
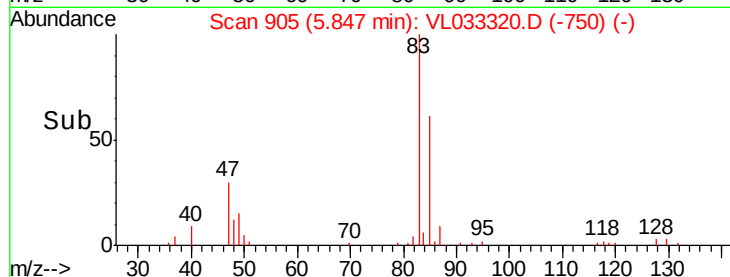
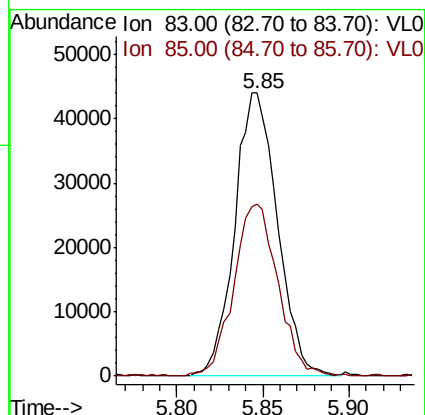
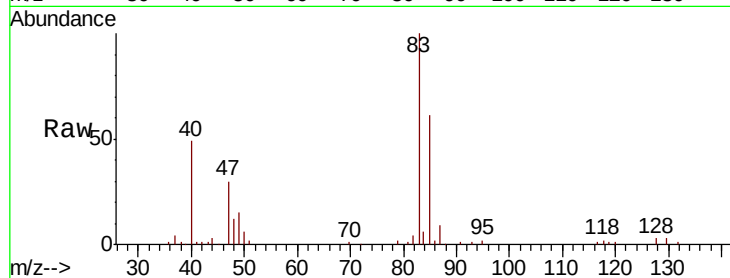
VSTDIC0.5

Tgt Ion: 83 Resp: 76158

Ion Ratio Lower Upper

83 100

85 60.3 51.8 77.8



#30

Cyclohexane

Concen: 0.097 ppbv

RT: 7.24 min Scan# 1337

Delta R.T. -0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

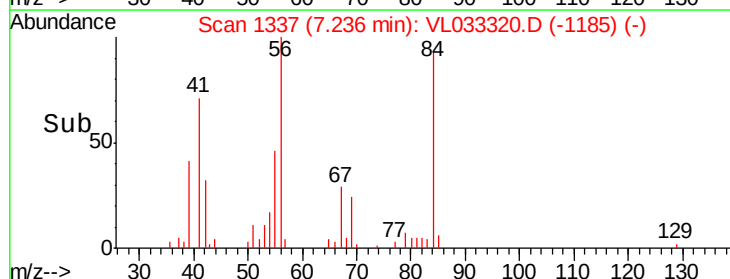
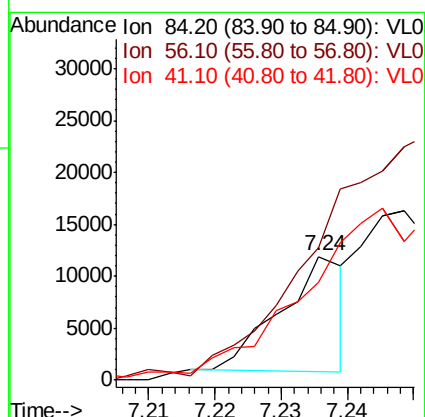
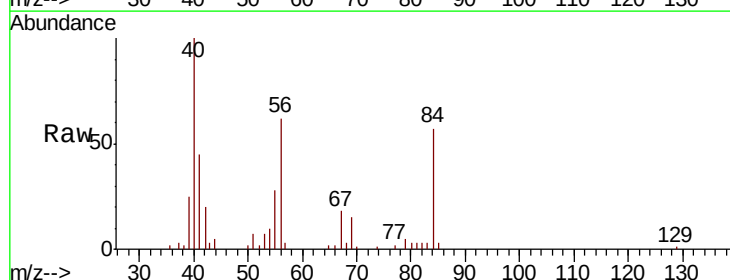
Tgt Ion: 84 Resp: 7505

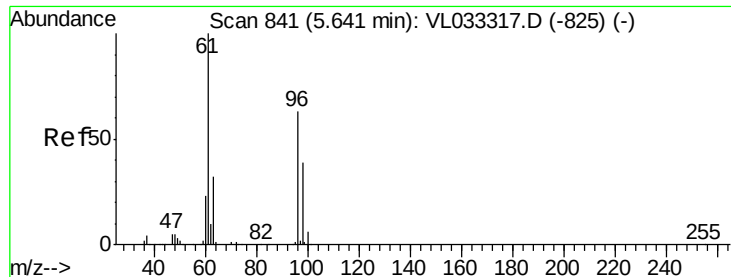
Ion Ratio Lower Upper

84 100

56 0.0 111.0 166.6#

41 0.0 69.1 103.7#





#31

cis-1,2-Dichloroethene

Concen: 0.466 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

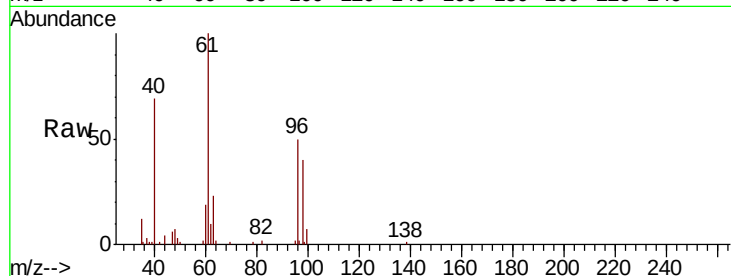
Tgt Ion: 61 Resp: 44705

Ion Ratio Lower Upper

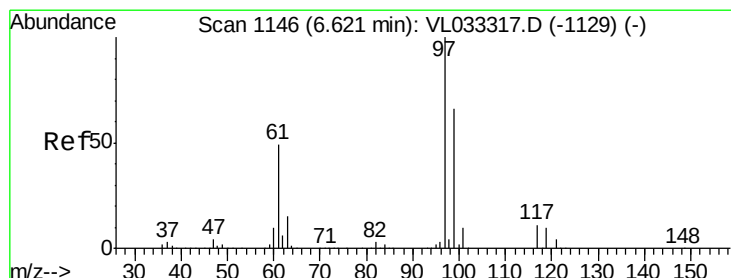
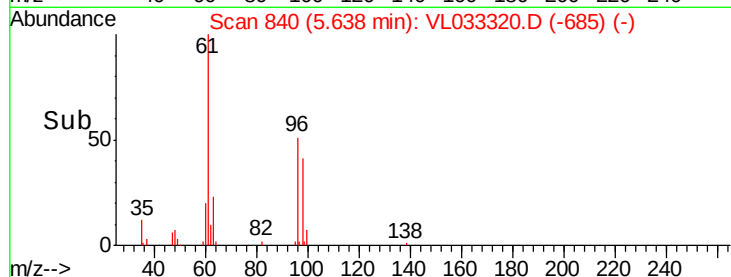
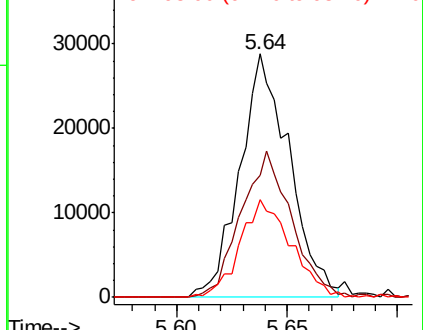
61 100

96 50.2 50.5 75.7#

98 40.1 31.1 46.7



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: 0.452 ppbv

RT: 6.62 min Scan# 1147

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

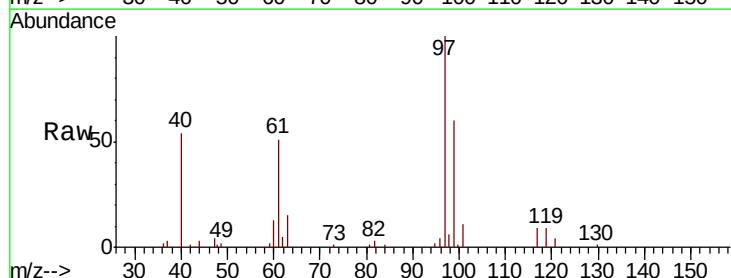
Tgt Ion: 97 Resp: 69342

Ion Ratio Lower Upper

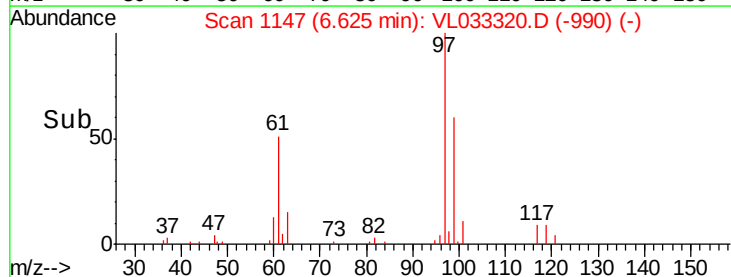
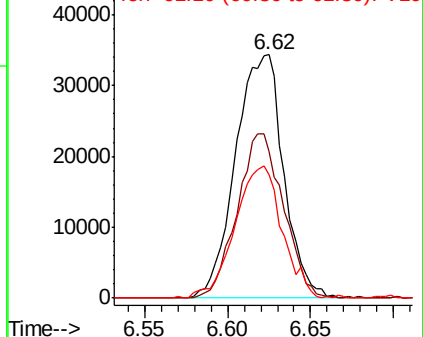
97 100

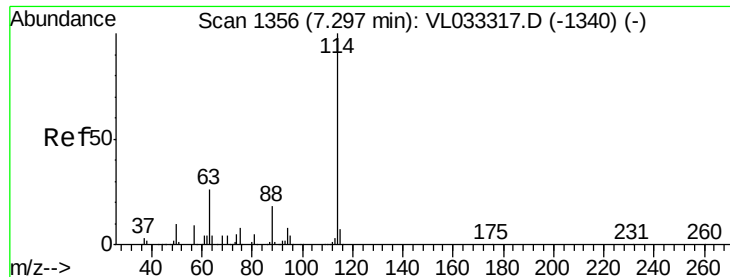
99 64.6 51.8 77.8

61 53.4 39.6 59.4



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

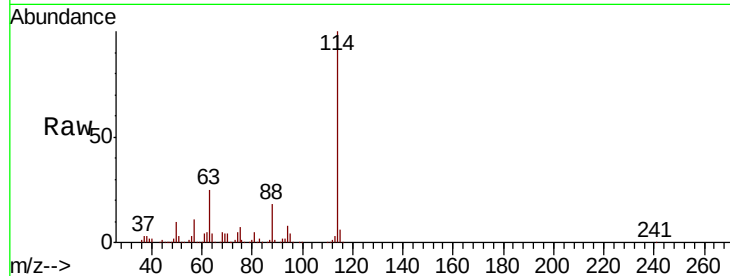




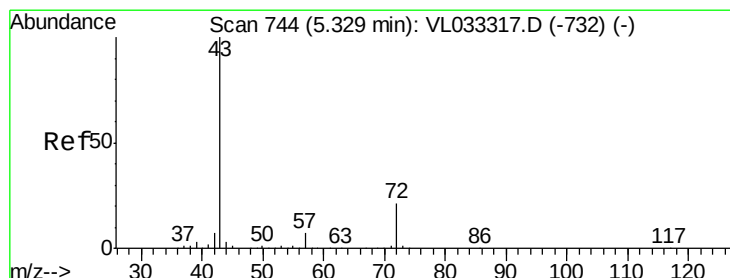
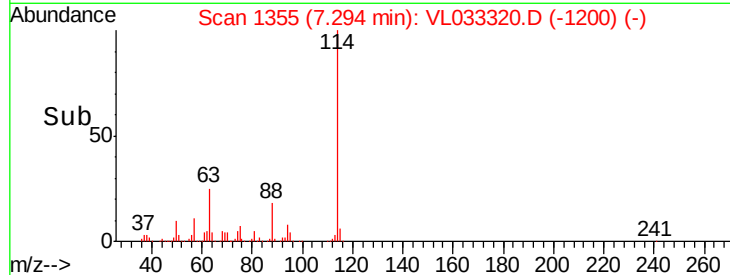
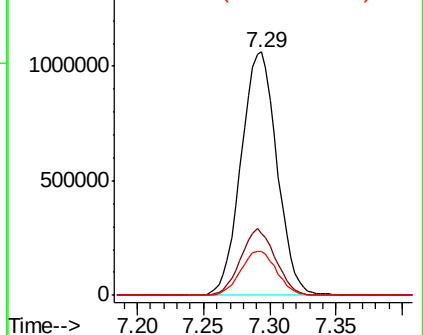
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:114 Resp: 2000347
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.5 32.3
 88 18.2 14.6 22.0

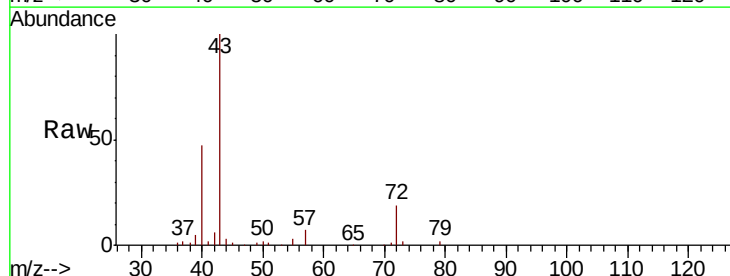


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

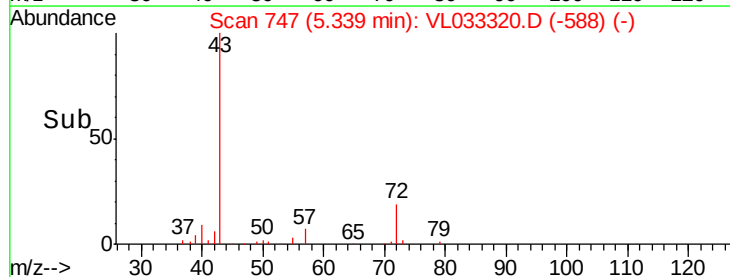
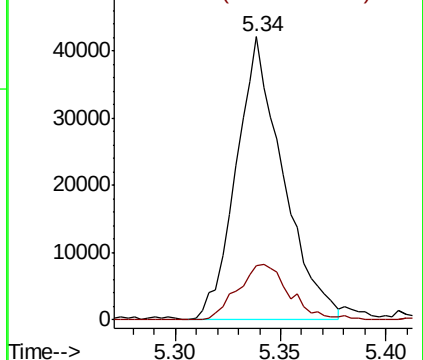


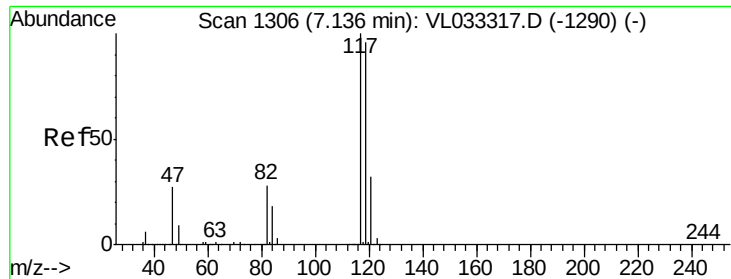
#34
 2-Butanone
 Concen: 0.482 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Tgt Ion: 43 Resp: 64901
 Ion Ratio Lower Upper
 43 100
 72 21.9 17.1 25.7



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

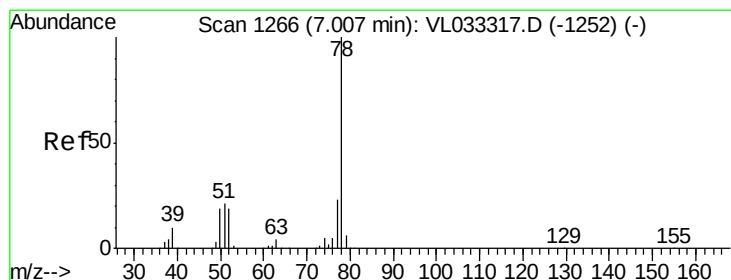
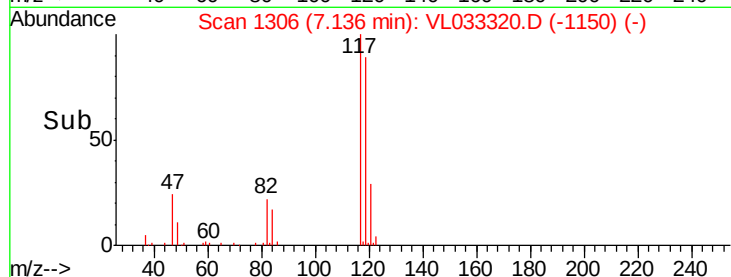
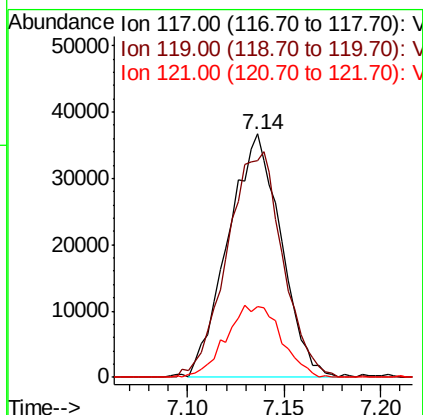
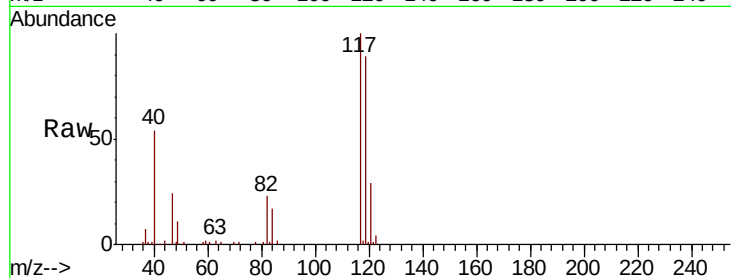




#35
 Carbon Tetrachloride
 Concen: 0.457 ppbv
 RT: 7.14 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

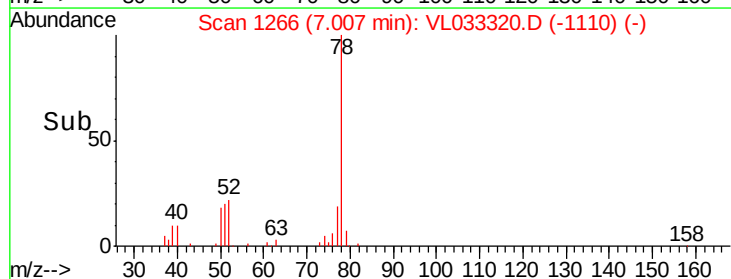
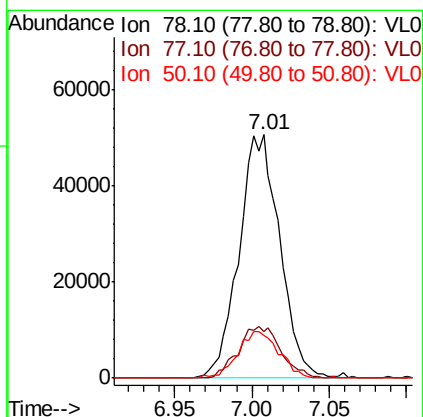
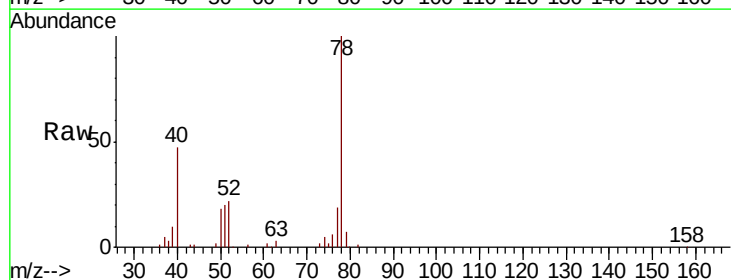
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

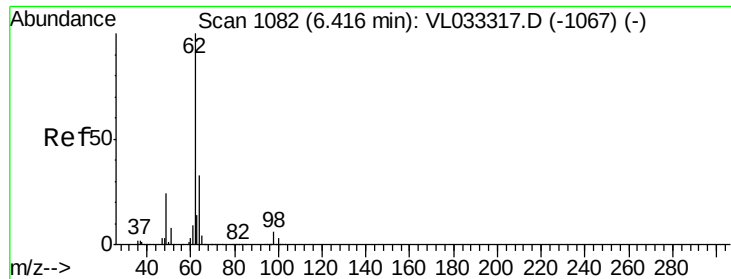
Tgt Ion: 117 Resp: 69991
 Ion Ratio Lower Upper
 117 100
 119 88.9 76.8 115.2
 121 29.9 25.2 37.8



#36
 Benzene
 Concen: 0.479 ppbv
 RT: 7.01 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Tgt Ion: 78 Resp: 92845
 Ion Ratio Lower Upper
 78 100
 77 19.2 18.0 27.0
 50 17.8 15.0 22.4





#37

1,2-Dichloroethane

Concen: 0.487 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. -0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

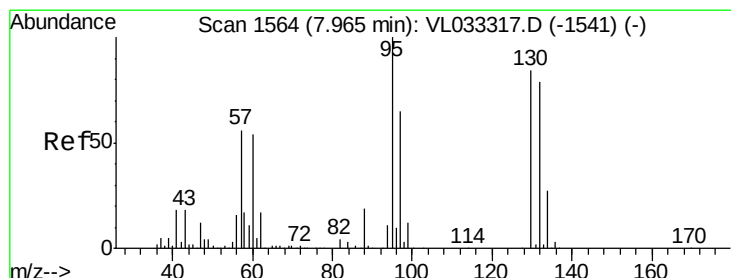
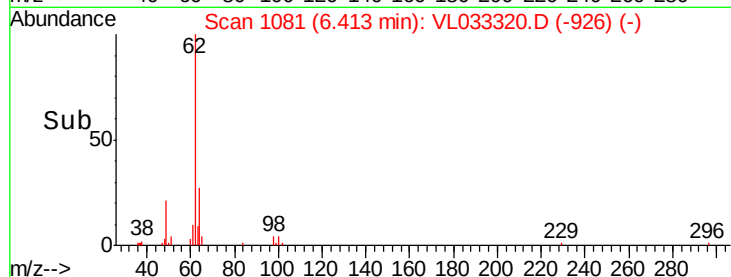
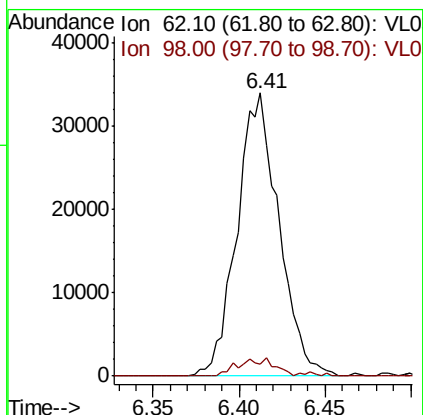
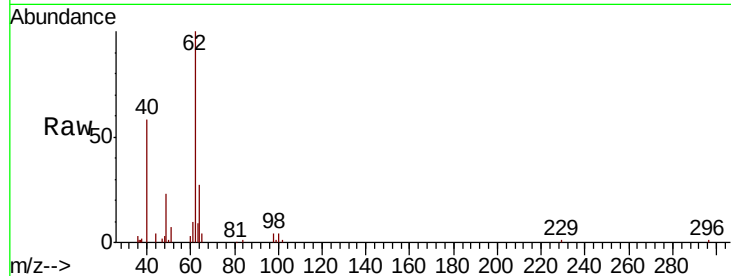
VSTDIC0.5

Tgt Ion: 62 Resp: 57043

Ion Ratio Lower Upper

62 100

98 6.0 4.6 6.8



#38

Trichloroethene

Concen: 0.455 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Tgt Ion: 130 Resp: 35166

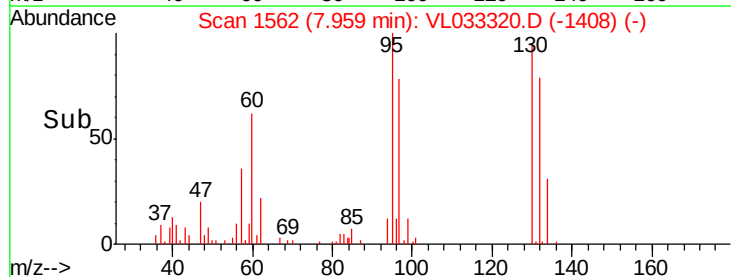
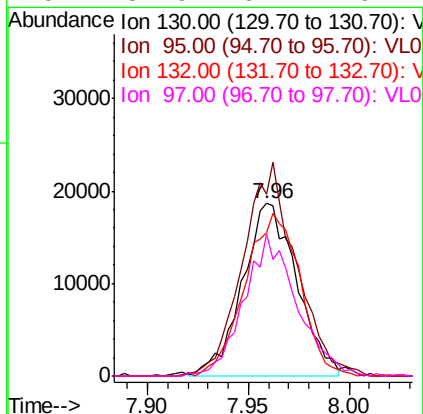
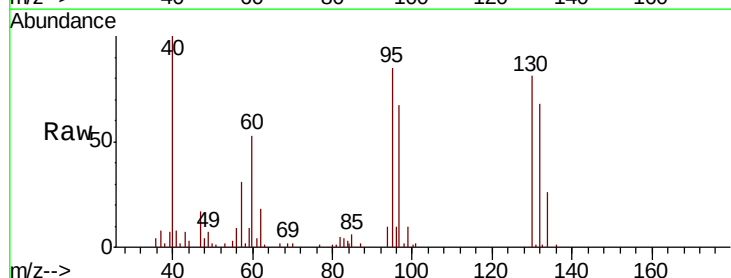
Ion Ratio Lower Upper

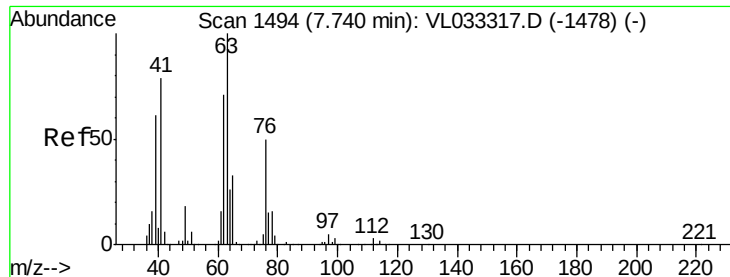
130 100

95 104.7 94.9 142.3

132 83.1 75.4 113.0

97 81.9 61.4 92.2





#39

1,2-Dichloropropane

Concen: 0.479 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

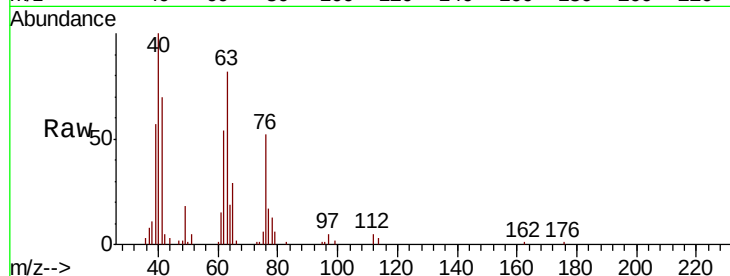
Tgt Ion: 63 Resp: 35649

Ion Ratio Lower Upper

63 100

41 83.7 63.5 95.3

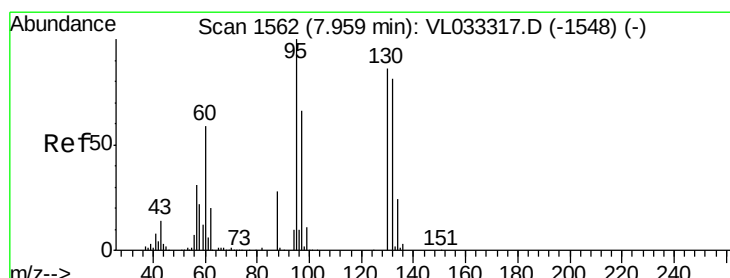
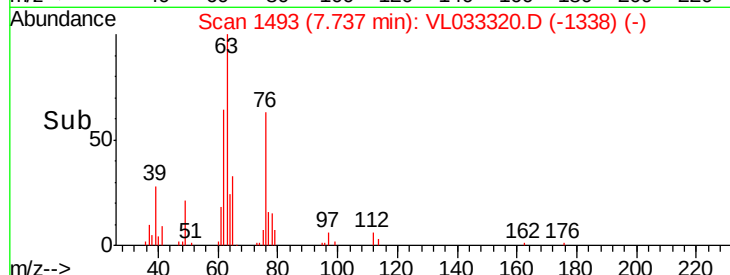
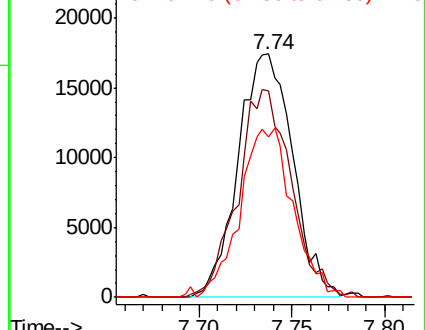
62 63.4 56.5 84.7



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.036 ppbv

RT: 7.97 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Tgt Ion: 88 Resp: 958

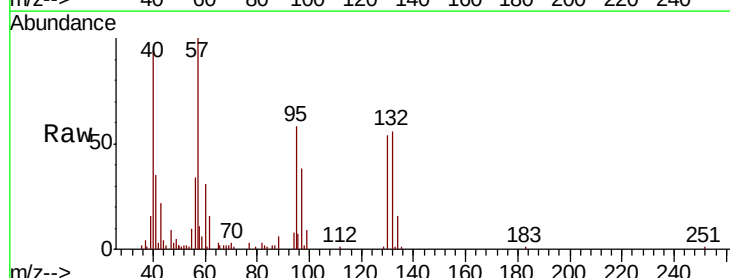
Ion Ratio Lower Upper

88 100

58 0.0 108.7 163.1#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

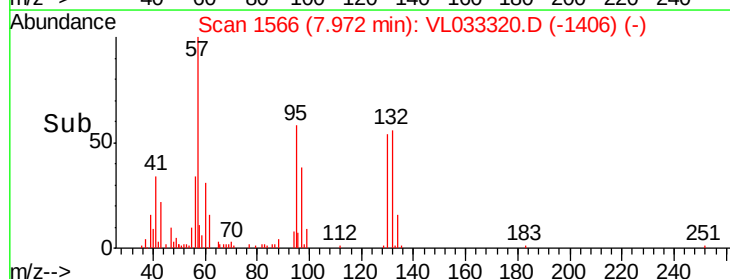
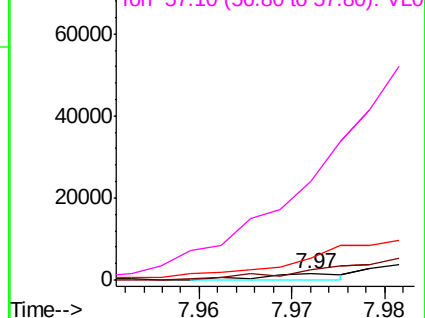


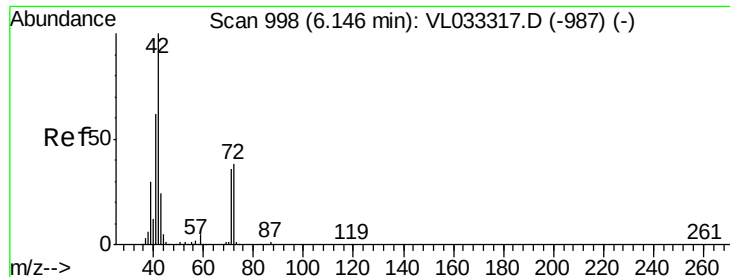
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.461 ppbv

RT: 6.18 min Scan# 1008

Delta R.T. 0.03 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

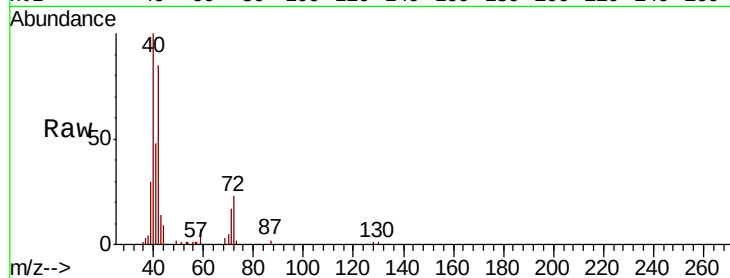
Tgt Ion: 42 Resp: 34992

Ion Ratio Lower Upper

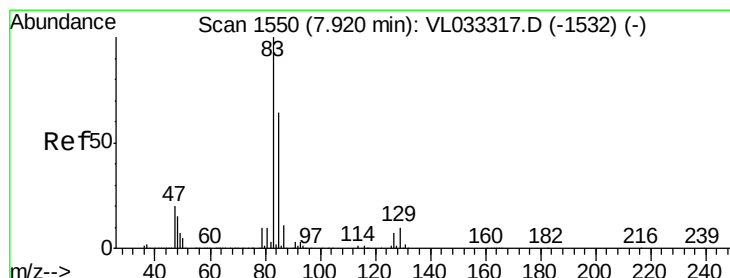
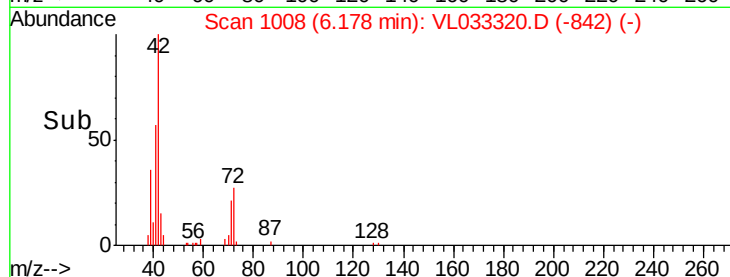
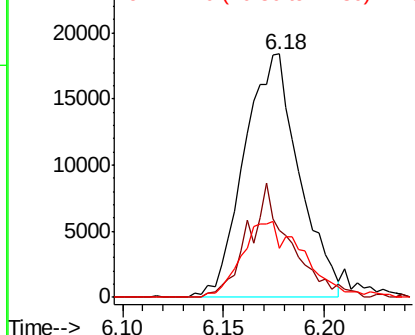
42 100

72 36.6 31.2 46.8

71 35.4 29.9 44.9



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: 0.444 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

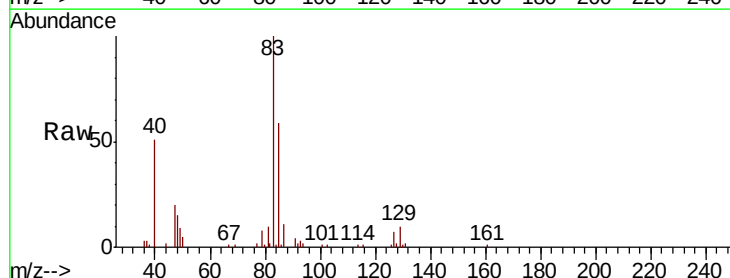
Tgt Ion: 83 Resp: 72785

Ion Ratio Lower Upper

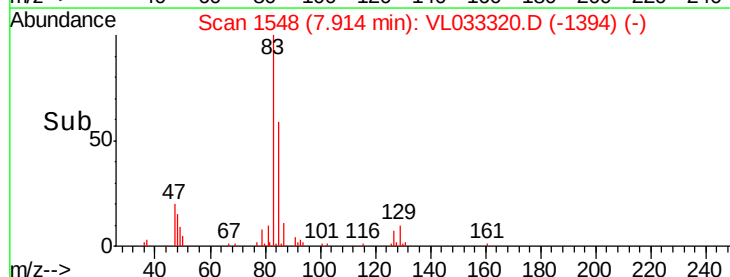
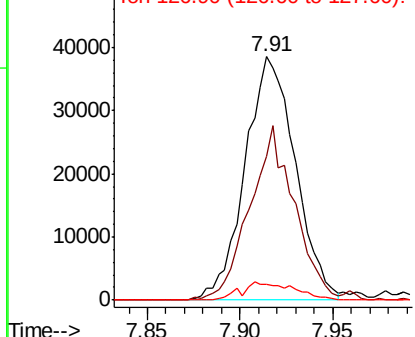
83 100

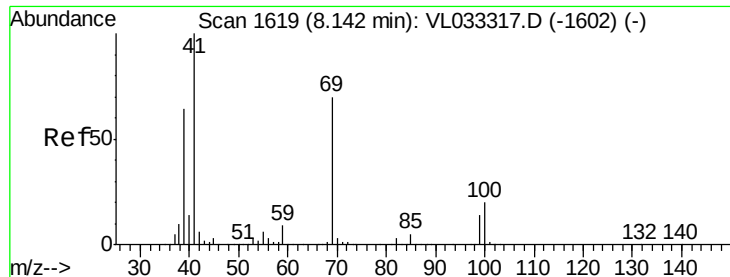
85 59.7 51.1 76.7

127 6.6 6.0 9.0



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

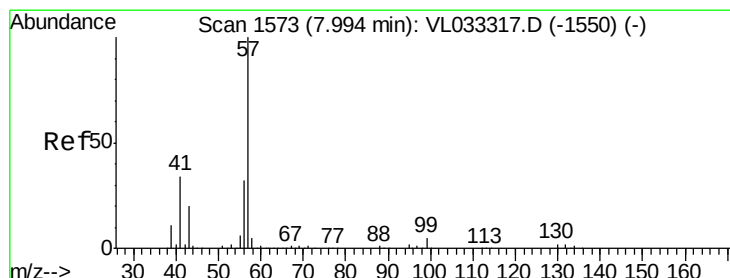
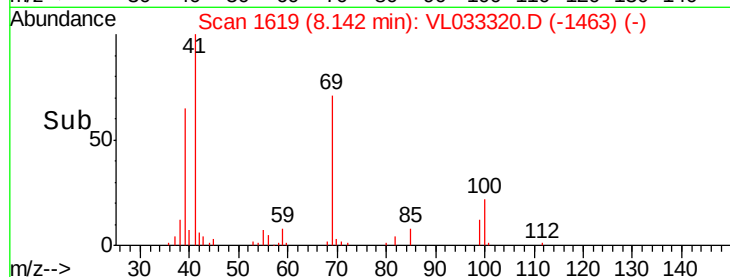
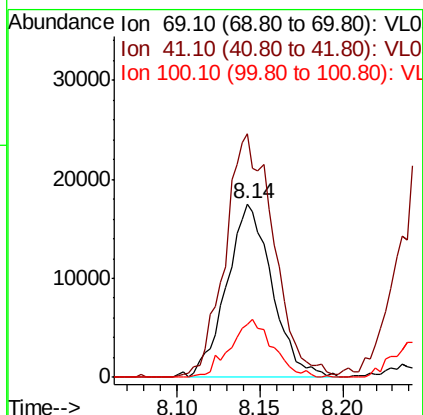
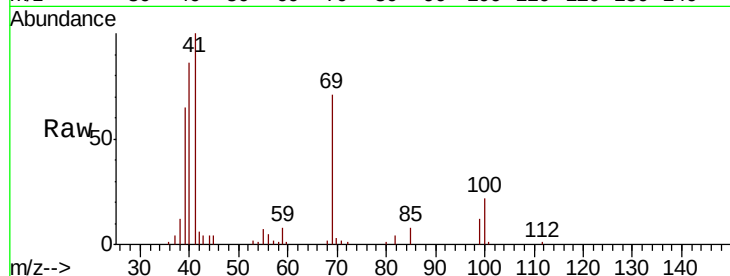




#43
Methyl Methacrylate
Concen: 0.431 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033320.D
Acq: 15 Mar 2019 4:51

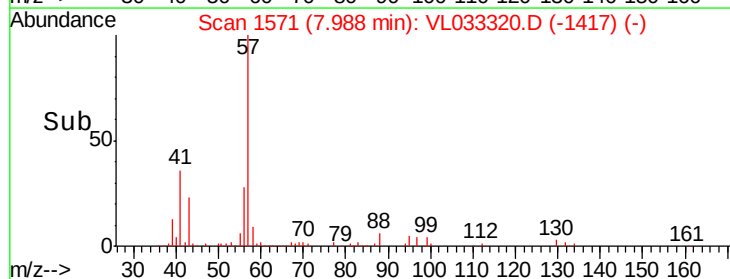
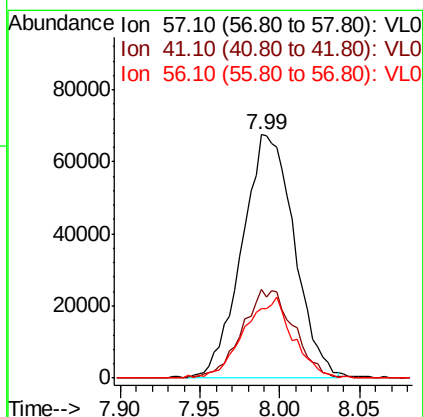
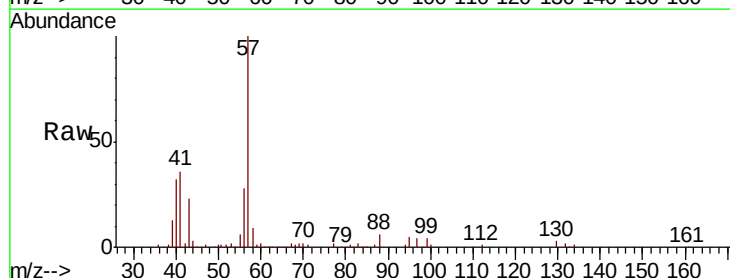
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

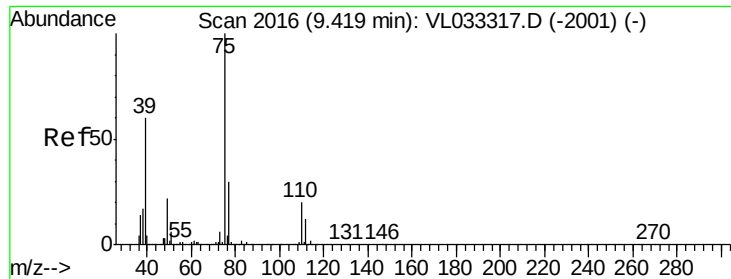
Tgt Ion: 69 Resp: 33306
Ion Ratio Lower Upper
69 100
41 150.4 119.0 178.4
100 31.6 24.3 36.5



#44
2,2,4-Trimethylpentane
Concen: 0.457 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL033320.D
Acq: 15 Mar 2019 4:51

Tgt Ion: 57 Resp: 151724
Ion Ratio Lower Upper
57 100
41 35.9 26.1 39.1
56 31.1 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 0.379 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

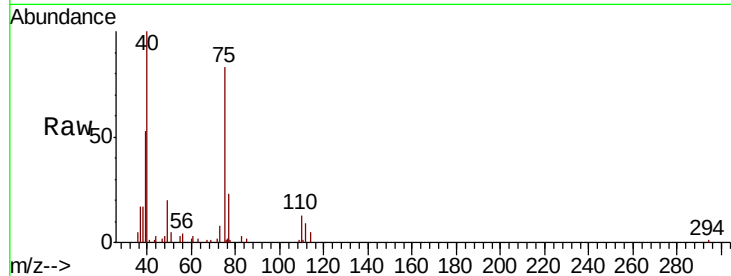
VSTDIC0.5

Tgt Ion: 75 Resp: 34361

Ion Ratio Lower Upper

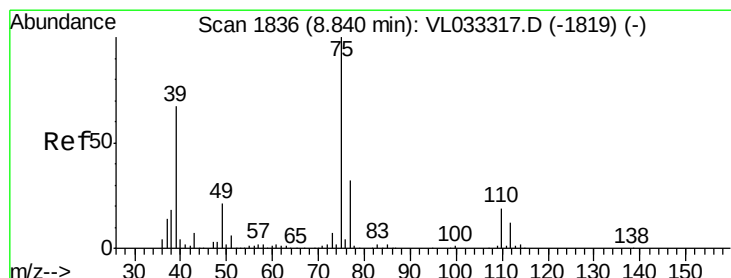
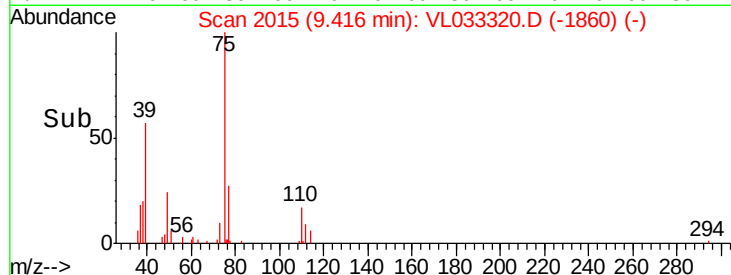
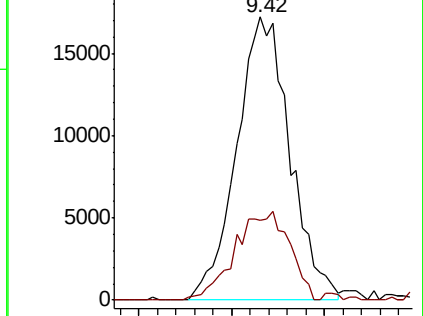
75 100

77 27.9 24.2 36.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.218 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

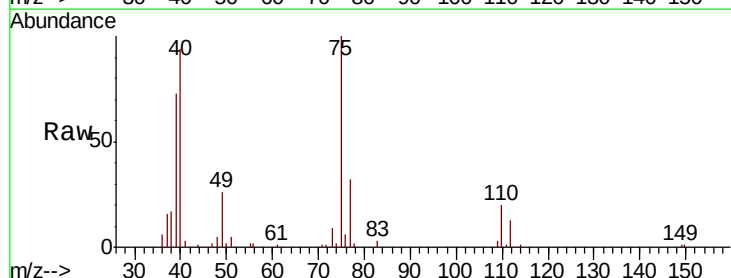
Tgt Ion: 75 Resp: 23799

Ion Ratio Lower Upper

75 100

39 73.1 53.7 80.5

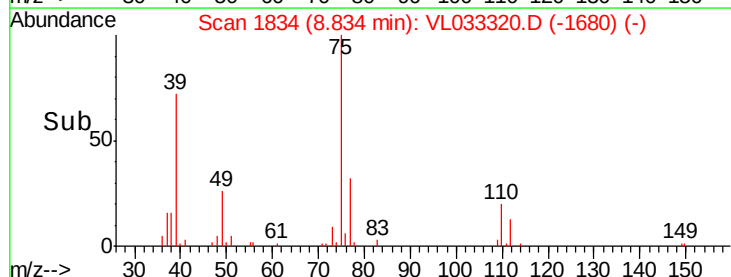
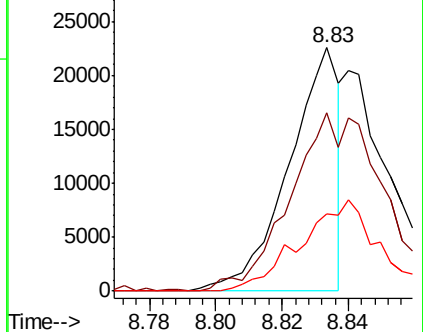
77 31.7 25.5 38.3

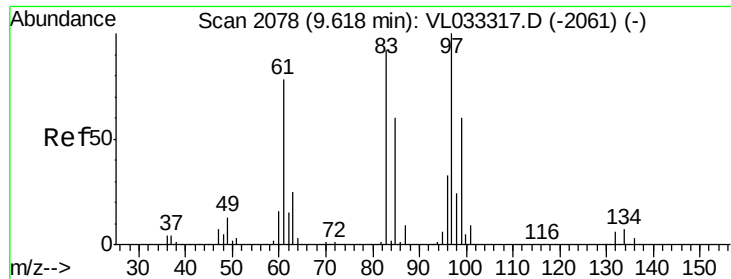


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 0.286 ppbv

RT: 9.61 min Scan# 2076

Delta R.T. -0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 22758

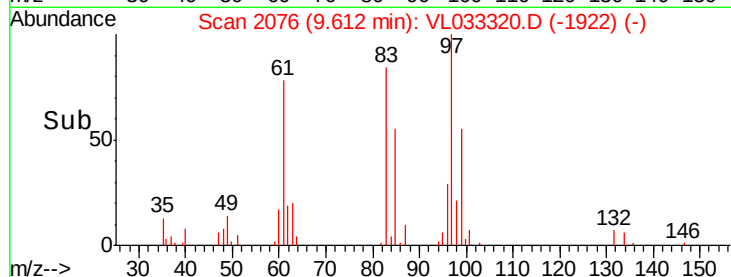
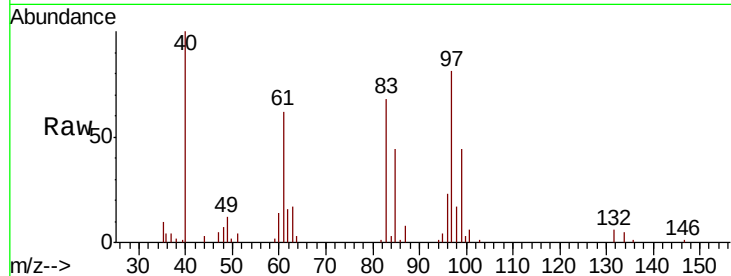
Ion Ratio Lower Upper

97 100

83 82.1 73.6 110.4

85 52.0 48.0 72.0

99 52.6 48.1 72.1

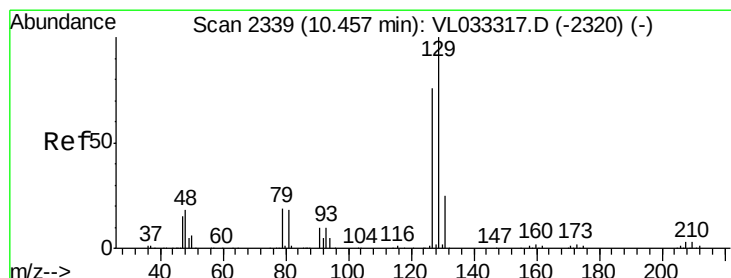
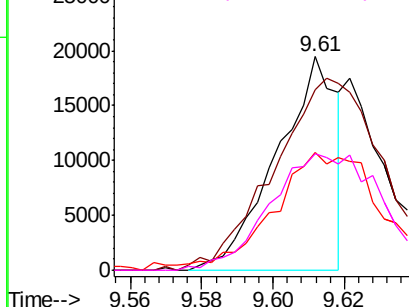


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.190 ppbv

RT: 10.45 min Scan# 2338

Delta R.T. -0.00 min

Lab File: VL033320.D

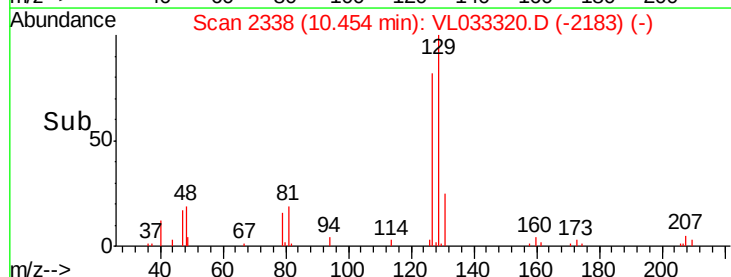
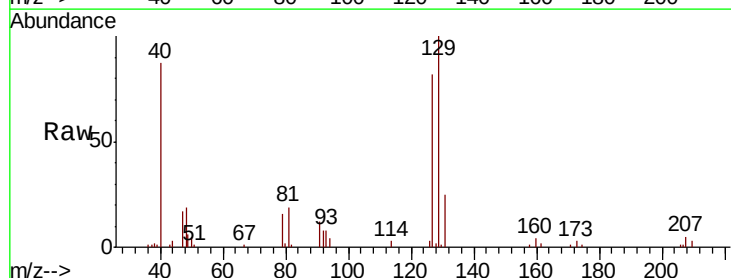
Acq: 15 Mar 2019 4:51

Tgt Ion: 129 Resp: 25487

Ion Ratio Lower Upper

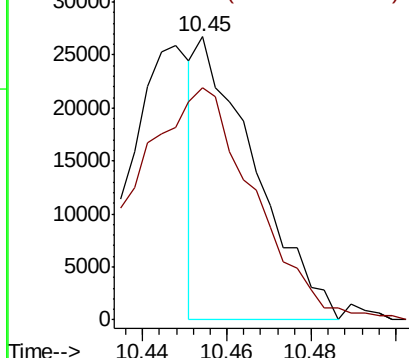
129 100

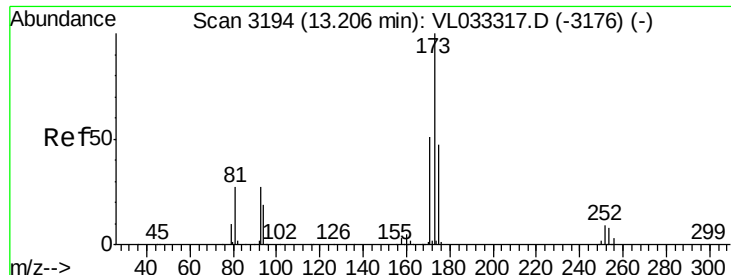
127 172.9 38.7 116.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.406 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

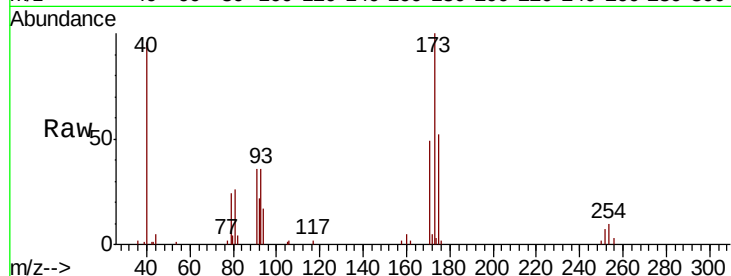
Tgt Ion: 173 Resp: 46200

Ion Ratio Lower Upper

173 100

175 49.5 38.6 58.0

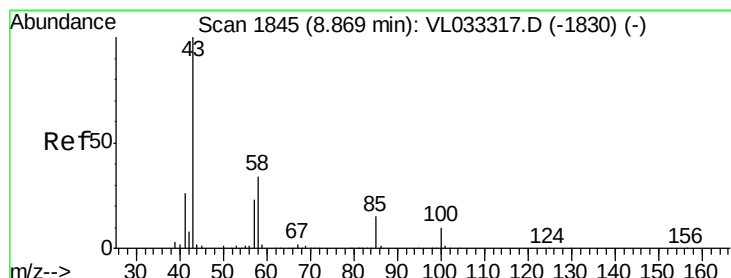
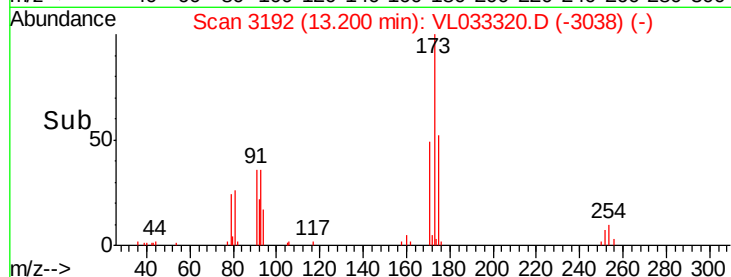
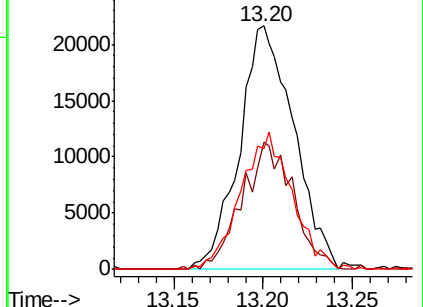
171 53.1 41.5 62.3



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: 0.465 ppbv

RT: 8.89 min Scan# 1852

Delta R.T. 0.02 min

Lab File: VL033320.D

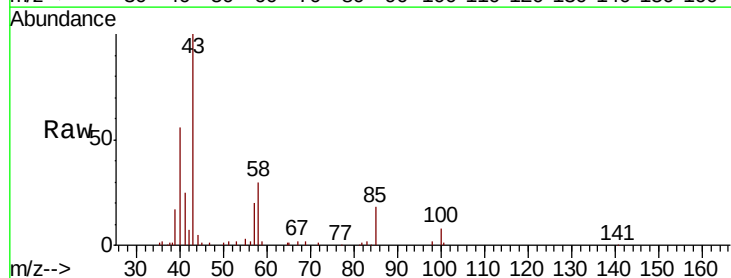
Acq: 15 Mar 2019 4:51

Tgt Ion: 43 Resp: 92193

Ion Ratio Lower Upper

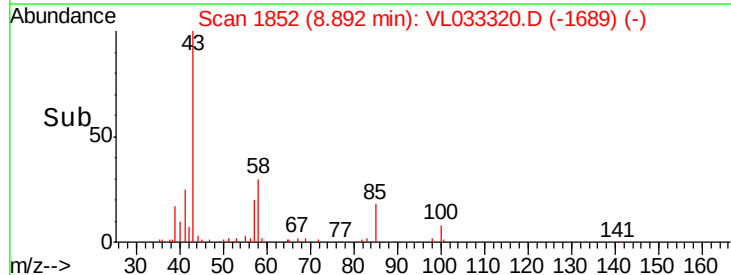
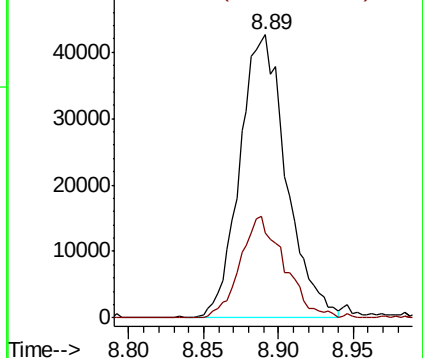
43 100

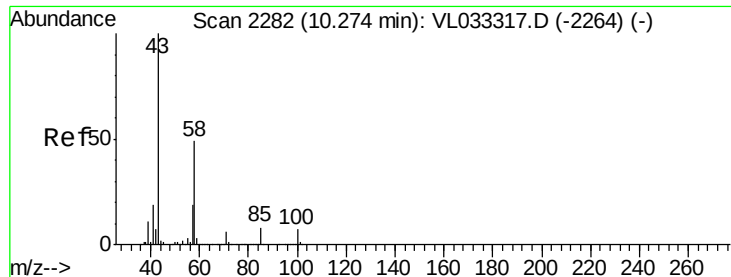
58 34.2 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

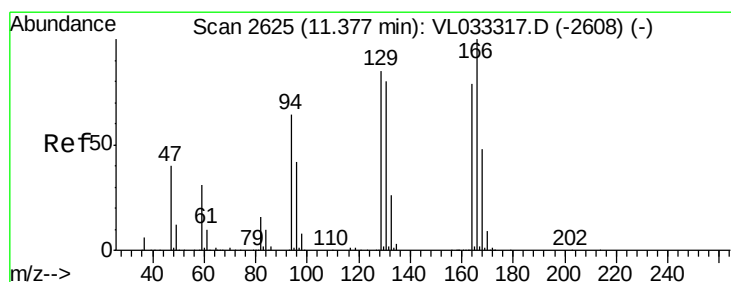
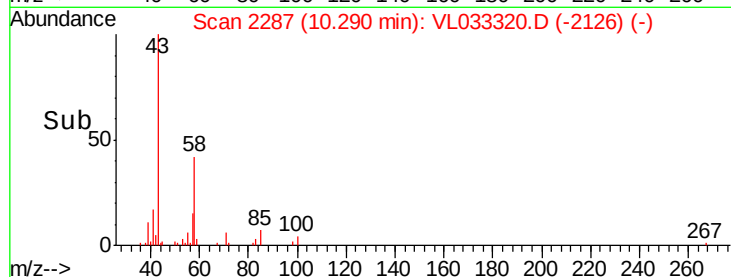
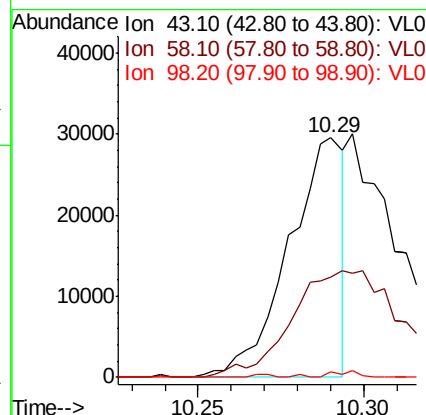
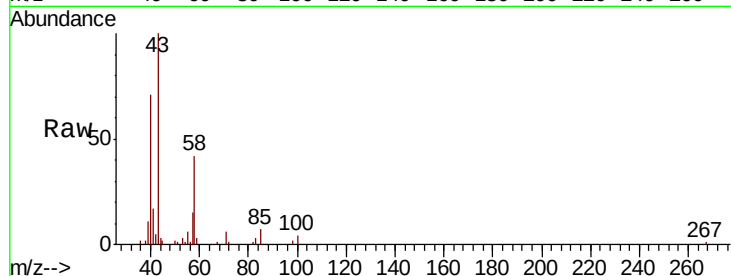




#51
2-Hexanone
Concen: 0.223 ppbv
RT: 10.29 min Scan# 2287
Delta R.T. 0.02 min
Lab File: VL033320.D
Acq: 15 Mar 2019 4:51

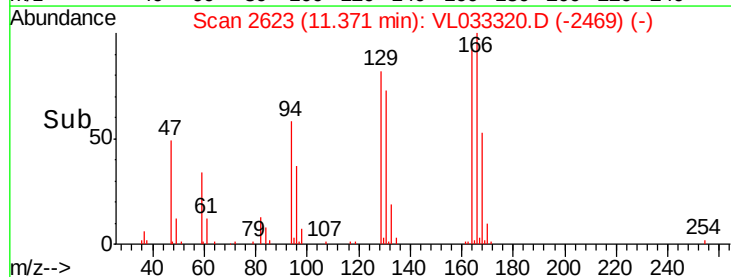
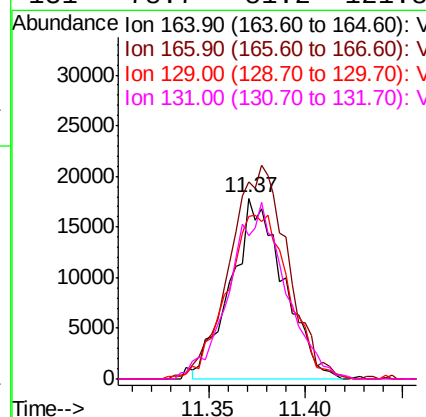
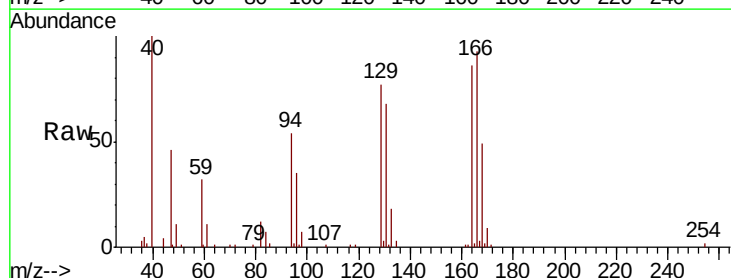
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

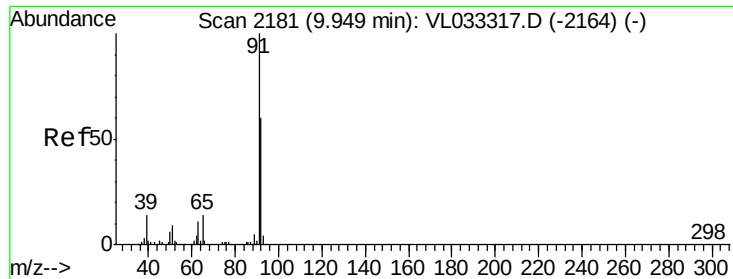
Tgt Ion: 43 Resp: 34124
Ion Ratio Lower Upper
43 100
58 0.0 38.0 57.0#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.424 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033320.D
Acq: 15 Mar 2019 4:51

Tgt Ion: 164 Resp: 33849
Ion Ratio Lower Upper
164 100
166 107.2 100.9 151.3
129 87.4 86.0 129.0
131 78.7 81.2 121.8#





#53

Toluene

Concen: 0.442 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

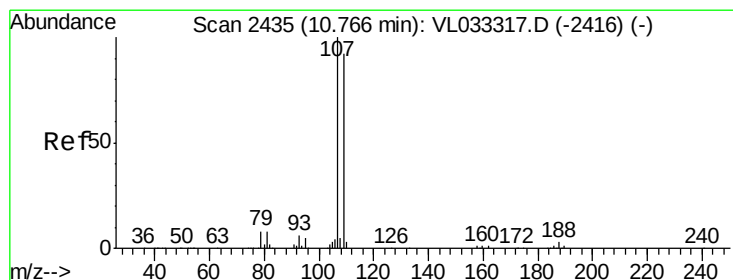
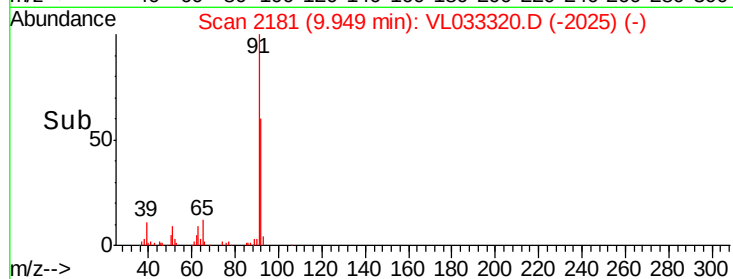
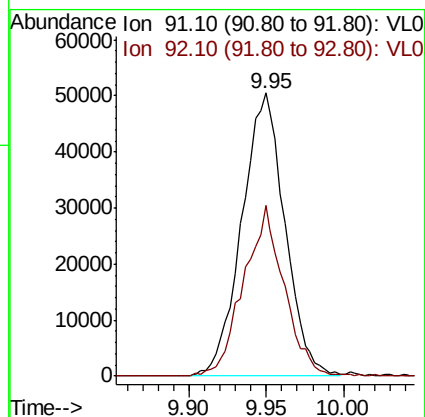
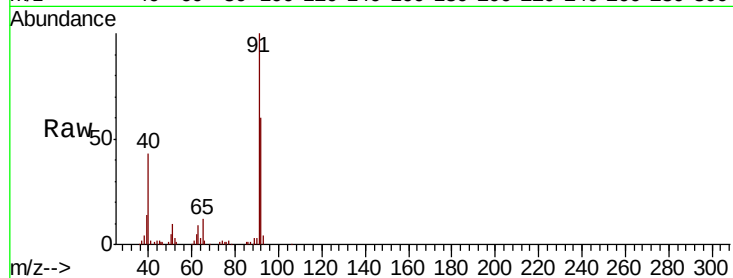
VSTDIC0.5

Tgt Ion: 91 Resp: 98013

Ion Ratio Lower Upper

91 100

92 56.6 47.5 71.3



#54

1,2-Dibromoethane

Concen: 0.434 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033320.D

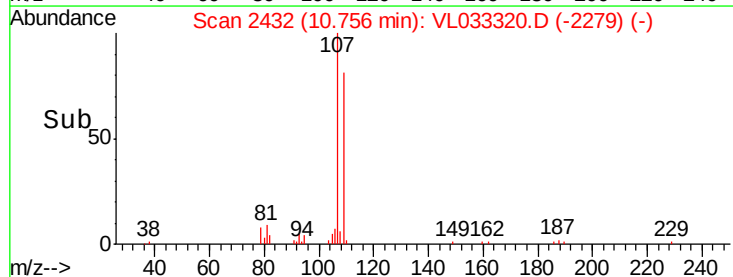
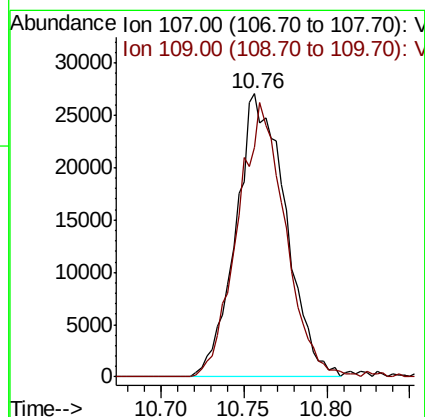
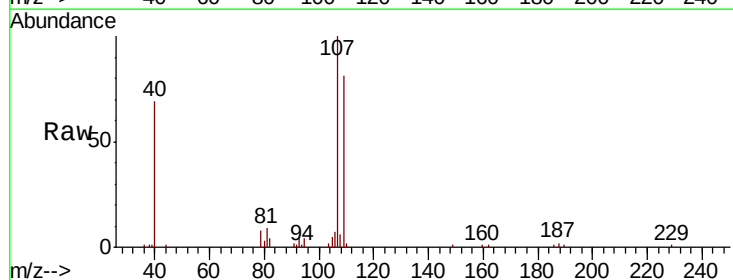
Acq: 15 Mar 2019 4:51

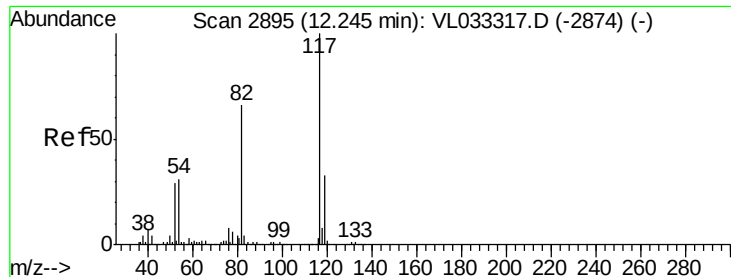
Tgt Ion: 107 Resp: 56501

Ion Ratio Lower Upper

107 100

109 81.1 73.6 110.4

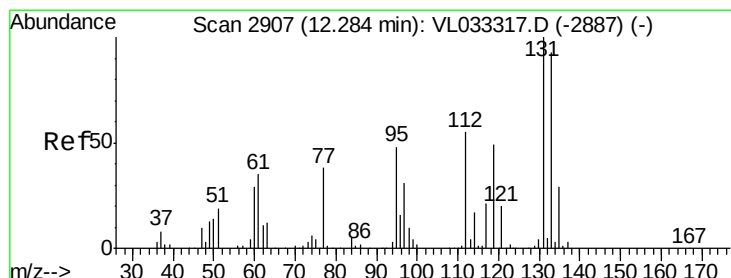
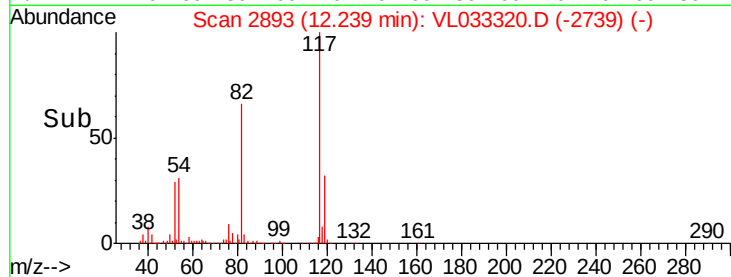
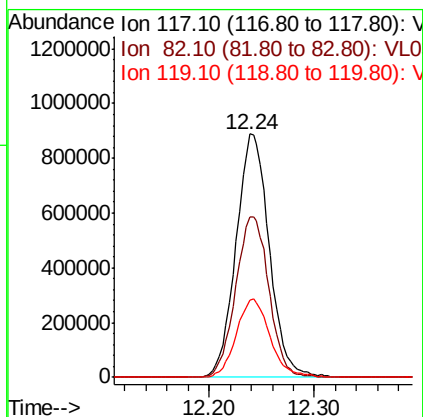
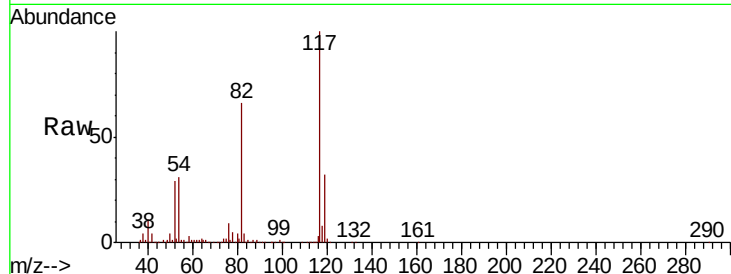




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033320.D
Acq: 15 Mar 2019 4:51

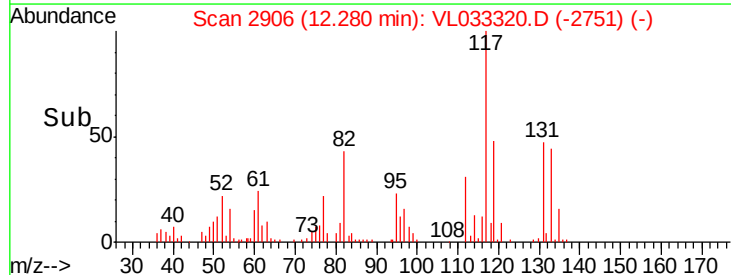
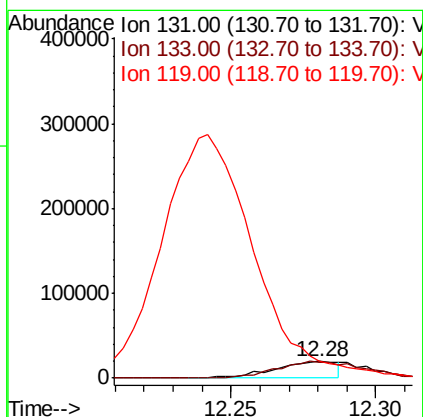
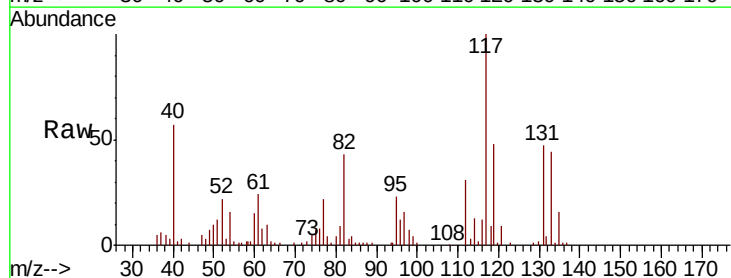
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

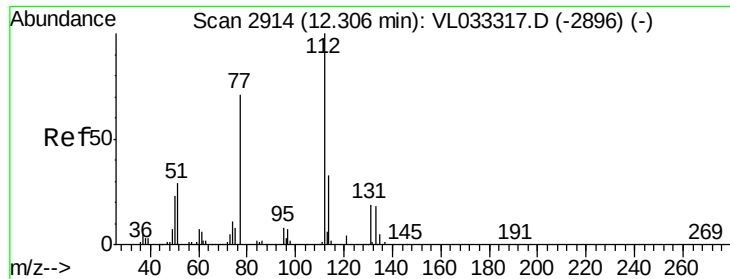
Tgt Ion:117 Resp: 1942081
Ion Ratio Lower Upper
117 100
82 66.4 53.3 79.9
119 33.0 27.7 41.5



#56
1,1,1,2-Tetrachloroethane
Concen: 0.342 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033320.D
Acq: 15 Mar 2019 4:51

Tgt Ion:131 Resp: 29982
Ion Ratio Lower Upper
131 100
133 142.8 76.2 114.2#
119 2140.0 48.5 72.7#

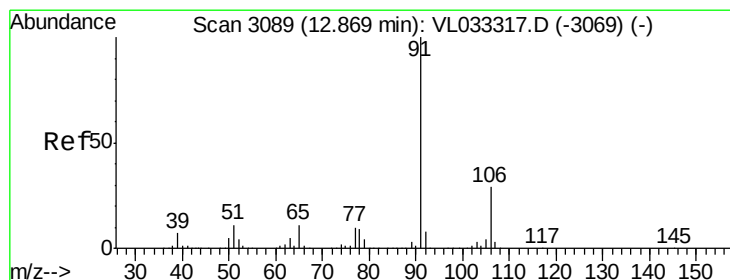
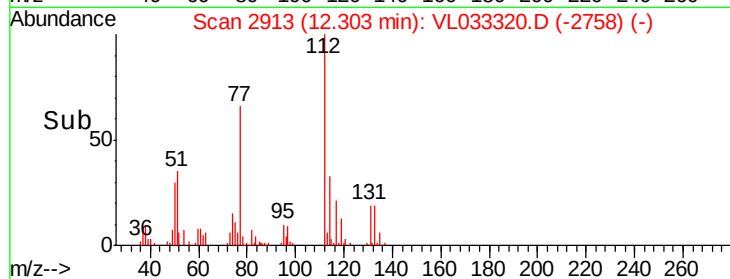
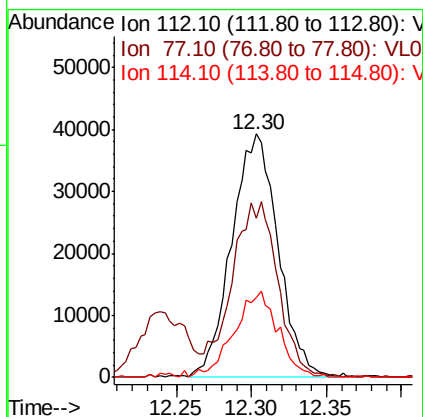
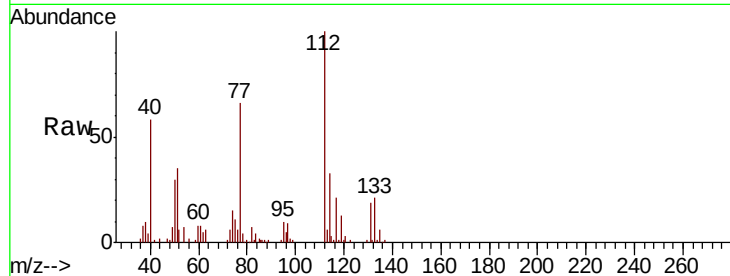




#57
Chlorobenzene
Concen: 0.538 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033320.D
Acq: 15 Mar 2019 4:51

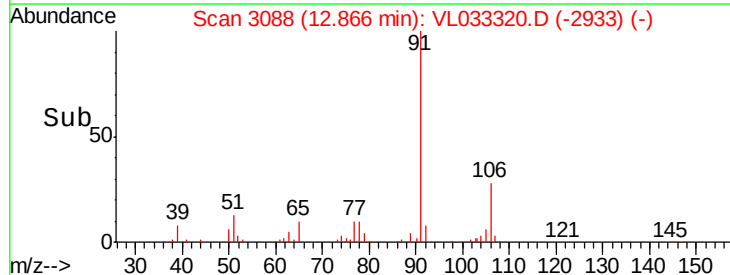
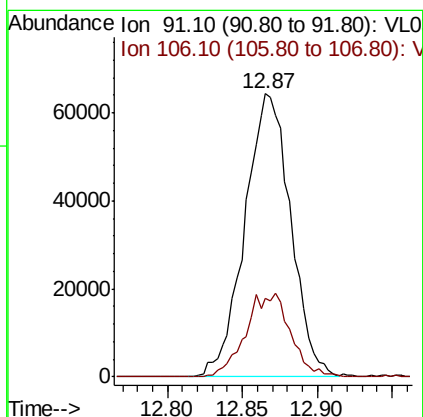
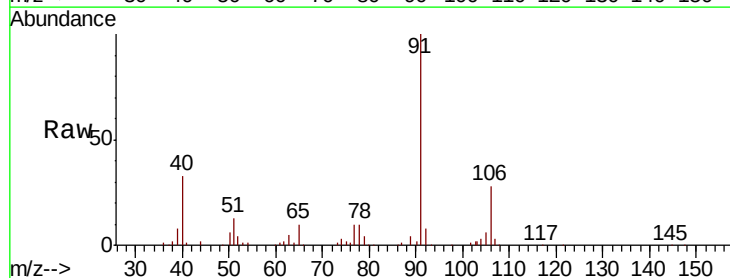
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

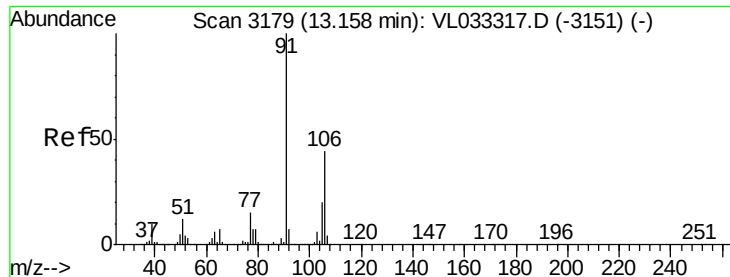
Tgt Ion: 112 Resp: 84715
Ion Ratio Lower Upper
112 100
77 64.9 57.5 86.3
114 35.5 29.7 36.3



#58
Ethyl Benzene
Concen: 0.490 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.00 min
Lab File: VL033320.D
Acq: 15 Mar 2019 4:51

Tgt Ion: 91 Resp: 137120
Ion Ratio Lower Upper
91 100
106 27.7 23.6 35.4





#59

m/p-Xylene

Concen: 0.341 ppbv

RT: 13.16 min Scan# 3178

Delta R.T. -0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

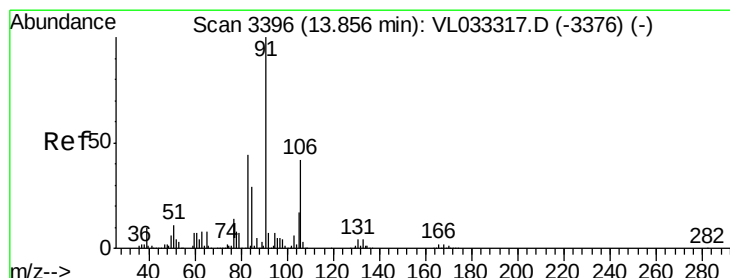
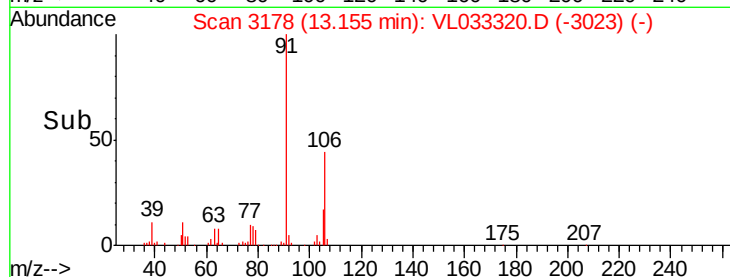
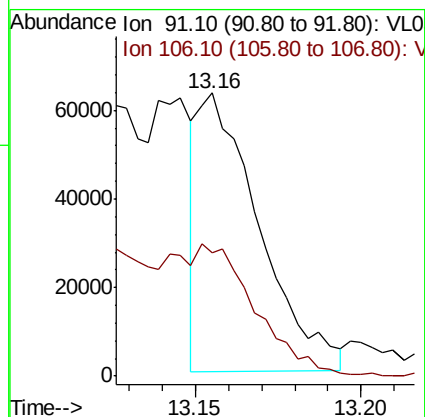
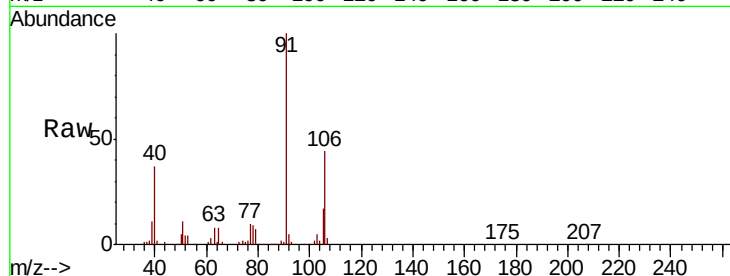
VSTDIC0.5

Tgt Ion: 91 Resp: 80165

Ion Ratio Lower Upper

91 100

106 134.0 35.6 53.4#



#60

o-Xylene

Concen: 0.513 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. -0.01 min

Lab File: VL033320.D

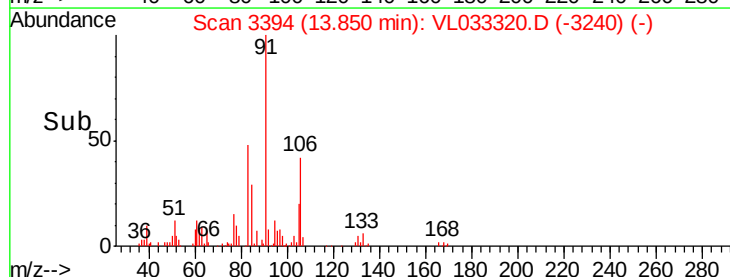
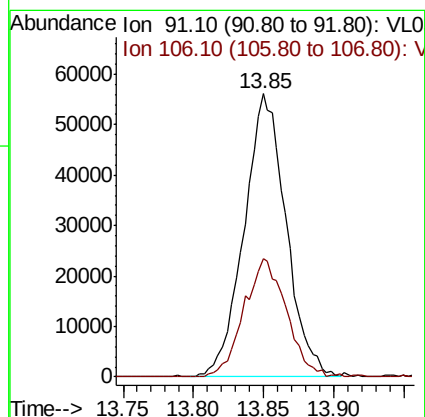
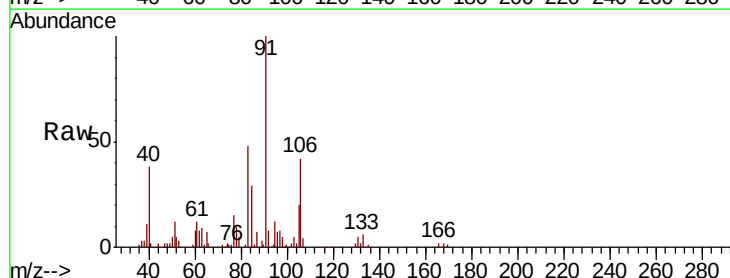
Acq: 15 Mar 2019 4:51

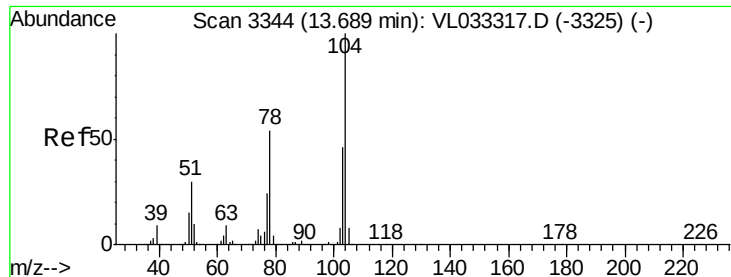
Tgt Ion: 91 Resp: 116831

Ion Ratio Lower Upper

91 100

106 42.0 21.5 64.5





#61

Styrene

Concen: 0.461 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

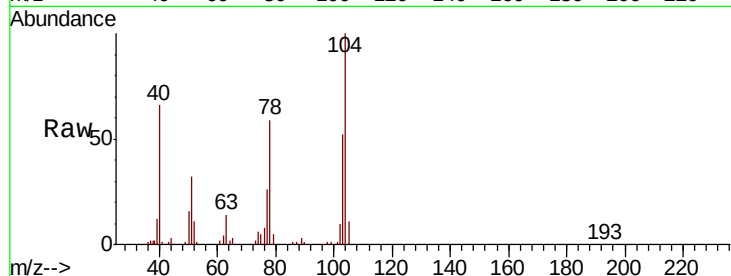
Tgt Ion:104 Resp: 73474

Ion Ratio Lower Upper

104 100

78 57.3 43.4 65.0

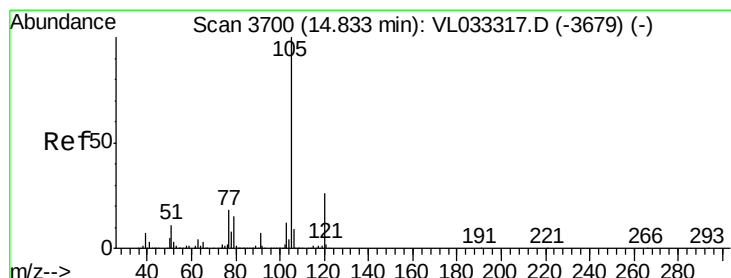
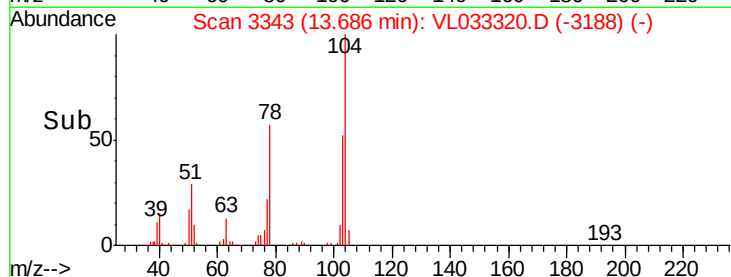
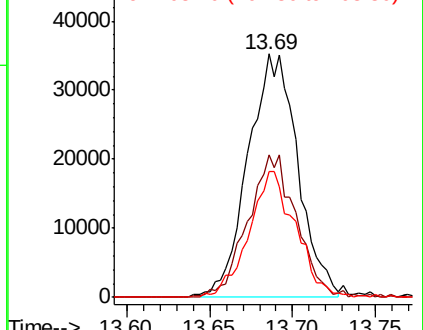
103 48.7 38.2 57.4



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: 0.505 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.01 min

Lab File: VL033320.D

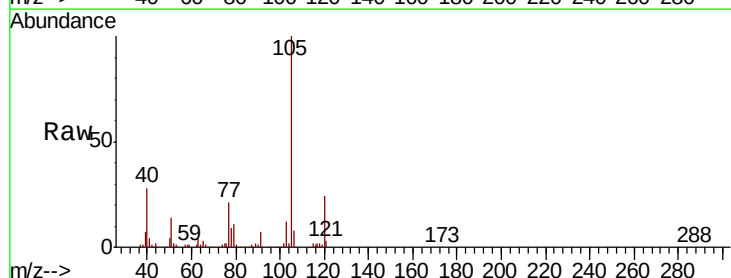
Acq: 15 Mar 2019 4:51

Tgt Ion:105 Resp: 161662

Ion Ratio Lower Upper

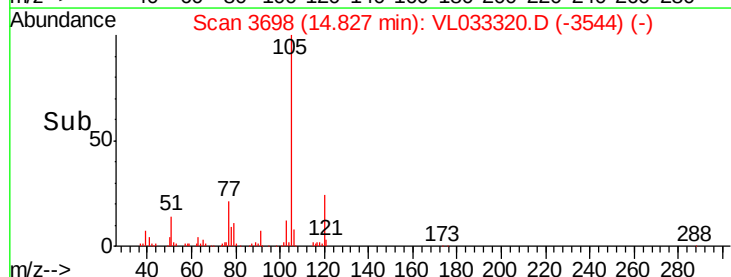
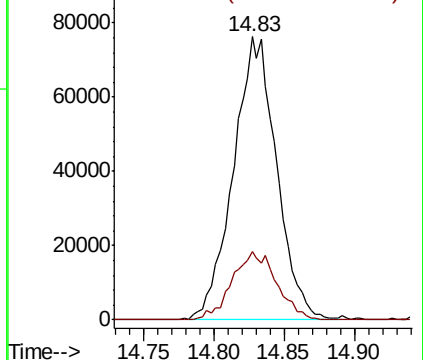
105 100

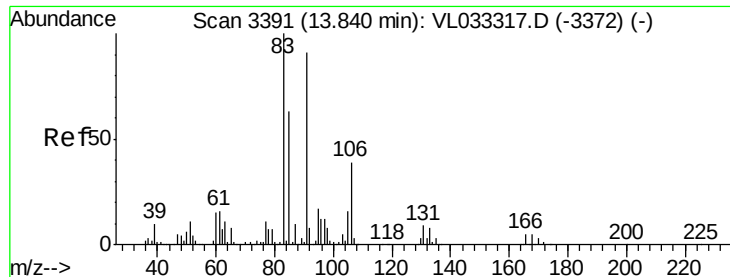
120 25.0 20.1 30.1



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: 0.537 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

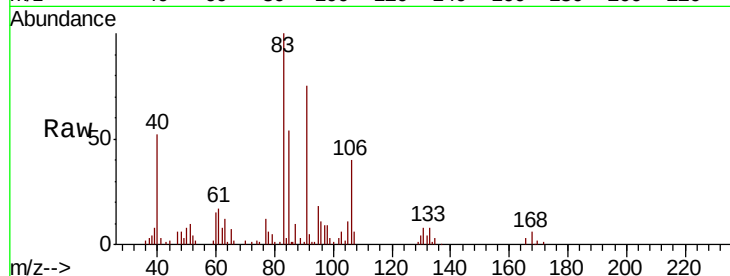
Tgt Ion: 83 Resp: 88112

Ion Ratio Lower Upper

83 100

131 9.6 4.5 13.5

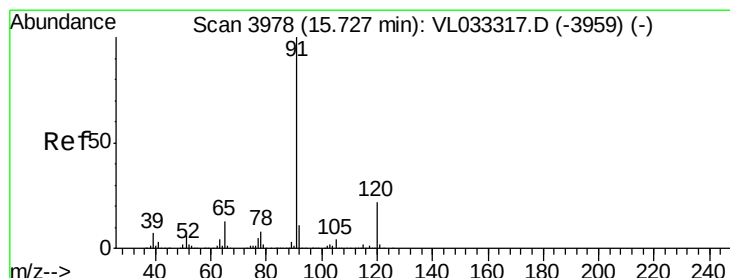
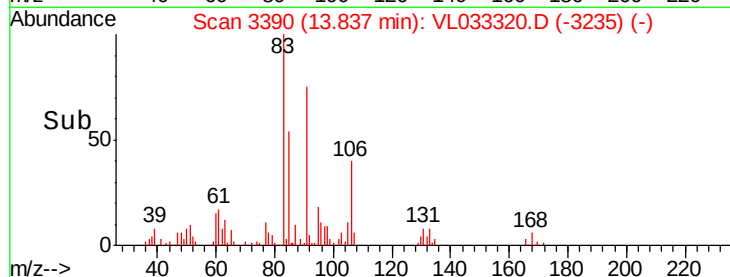
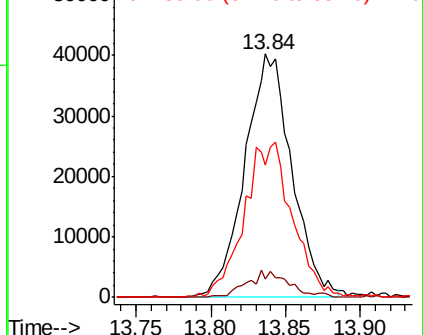
85 65.6 32.5 97.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.494 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. 0.00 min

Lab File: VL033320.D

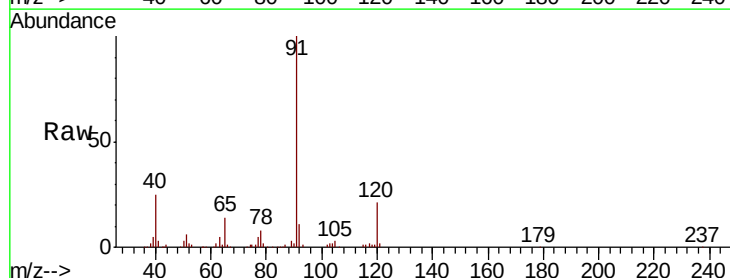
Acq: 15 Mar 2019 4:51

Tgt Ion: 120 Resp: 39317

Ion Ratio Lower Upper

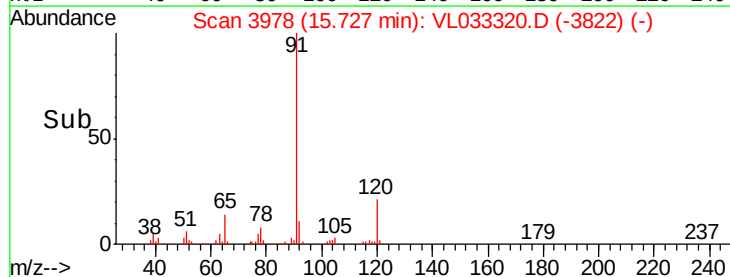
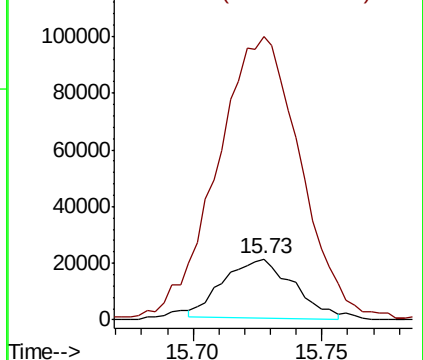
120 100

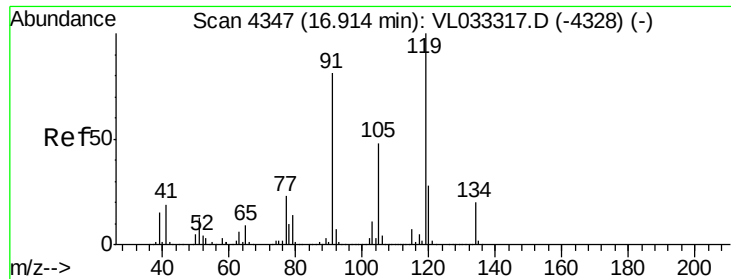
91 582.7 387.4 581.0#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

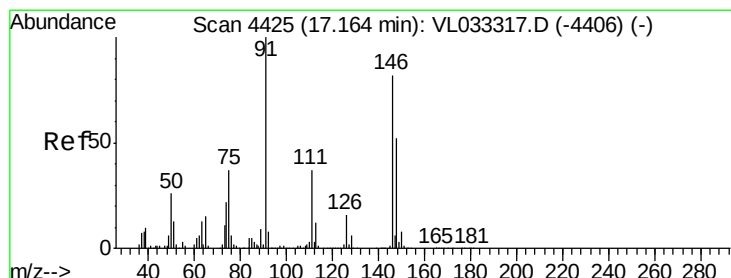
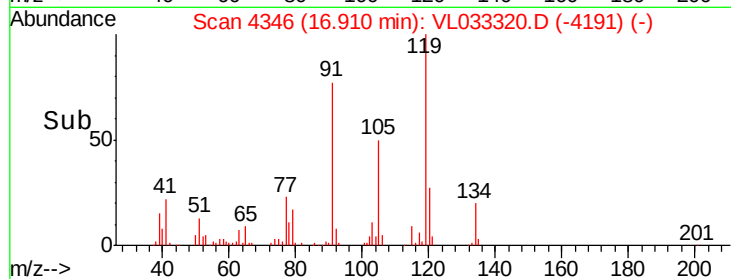
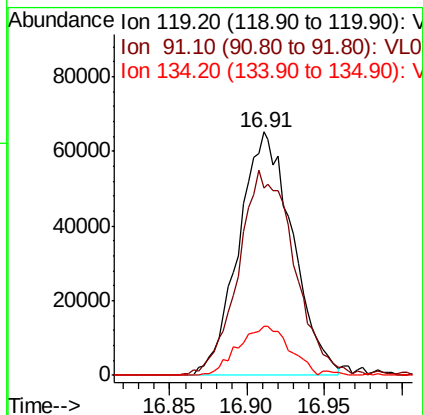
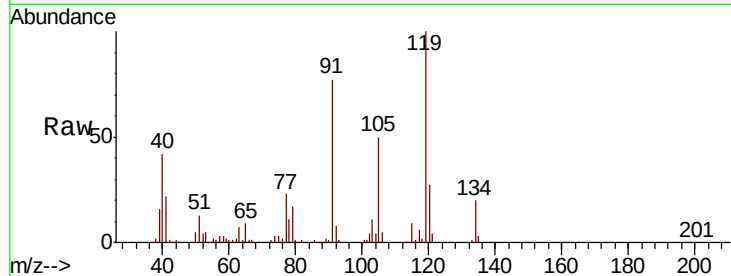




#65
 tert-Butylbenzene
 Concen: 0.583 ppbv
 RT: 16.91 min Scan# 4346
 Delta R.T. -0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

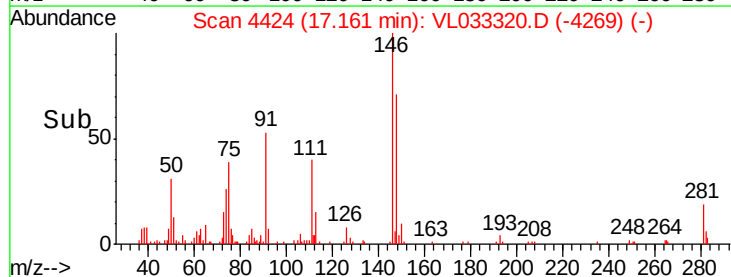
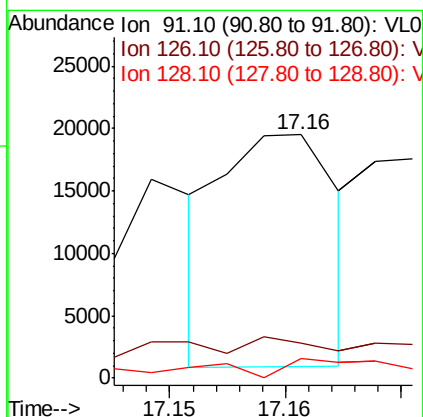
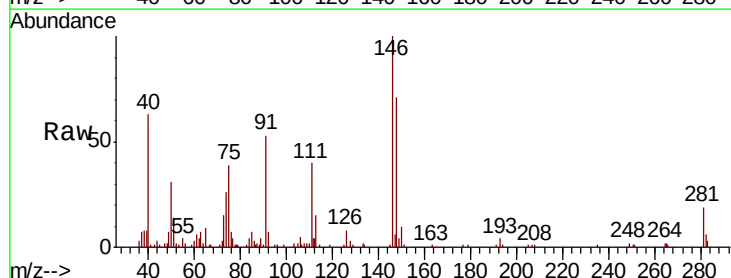
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

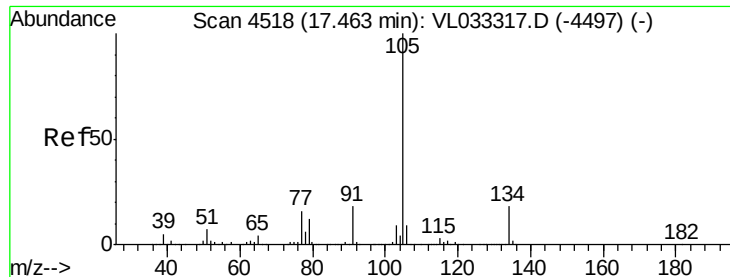
Tgt Ion: 119 Resp: 158059
 Ion Ratio Lower Upper
 119 100
 91 87.8 67.5 101.3
 134 19.8 15.5 23.3



#66
 Benzyl Chloride
 Concen: 0.117 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Tgt Ion: 91 Resp: 12856
 Ion Ratio Lower Upper
 91 100
 126 56.5 13.4 20.0#
 128 16.7 4.3 6.5#





#67

sec-Butylbenzene

Concen: 0.591 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

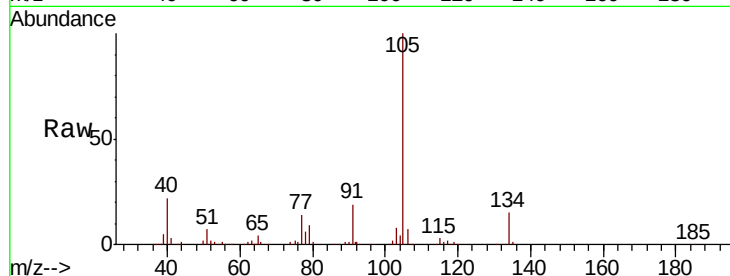
VSTDIC0.5

Tgt Ion: 105 Resp: 230565

Ion Ratio Lower Upper

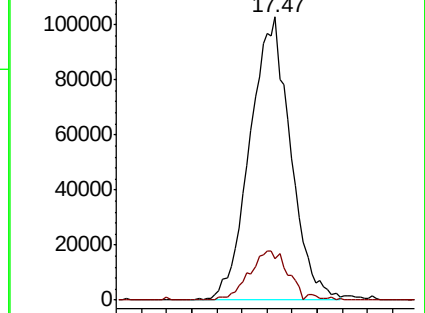
105 100

134 17.2 14.2 21.4

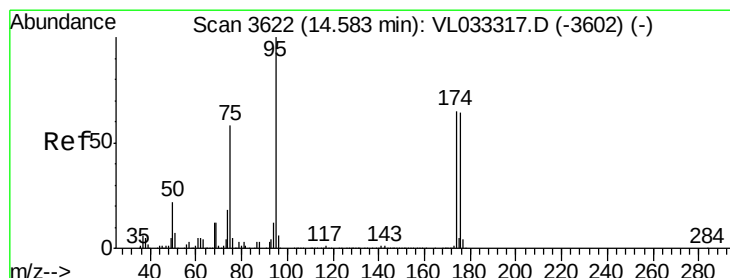
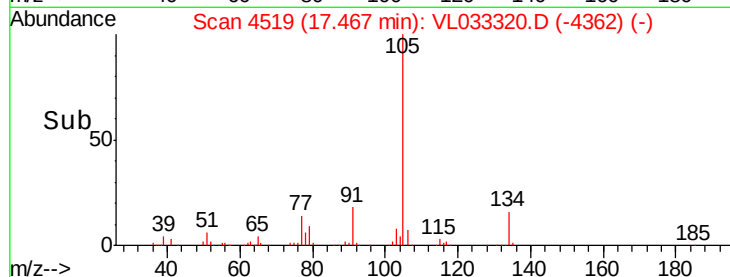


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.734 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

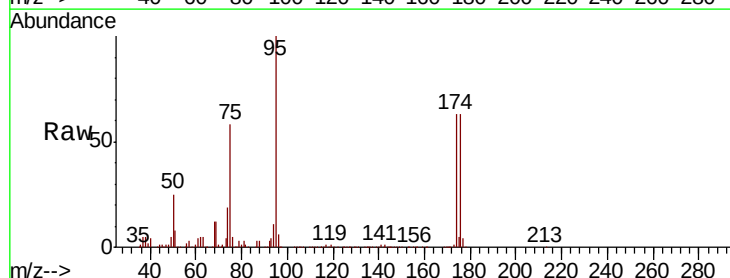
Tgt Ion: 95 Resp: 1445556

Ion Ratio Lower Upper

95 100

174 64.7 52.2 78.4

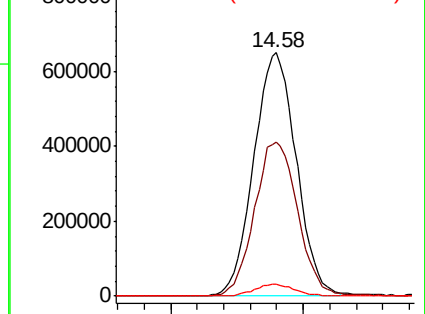
175 4.7 3.8 5.6



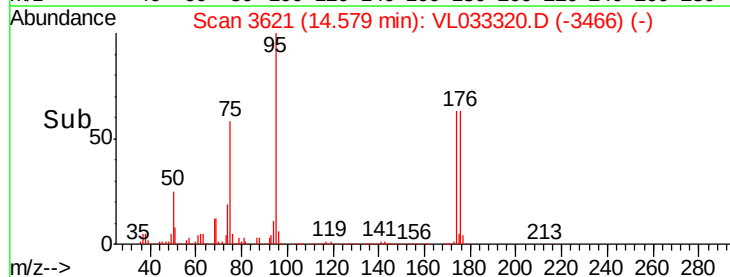
Abundance Ion 95.10 (94.80 to 95.80): VL0

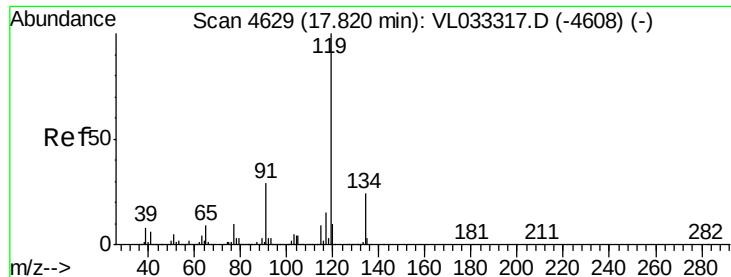
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->

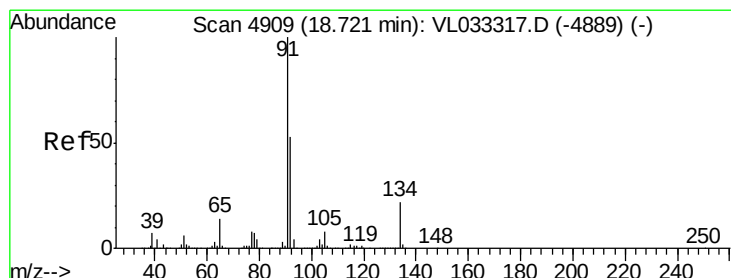
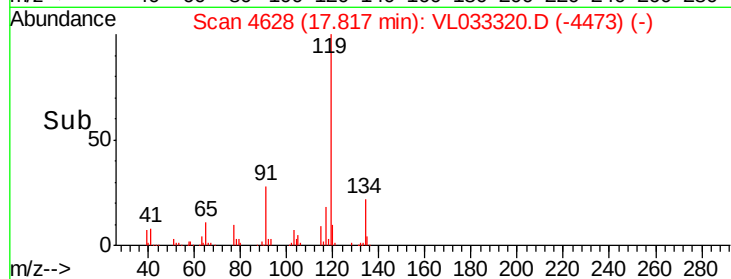
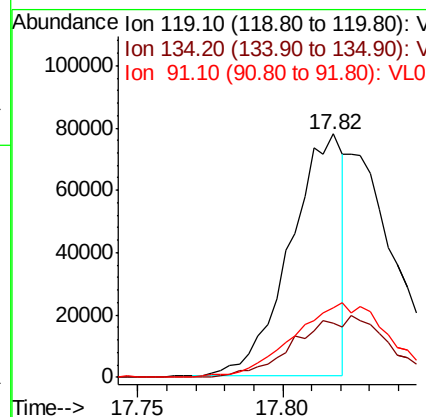
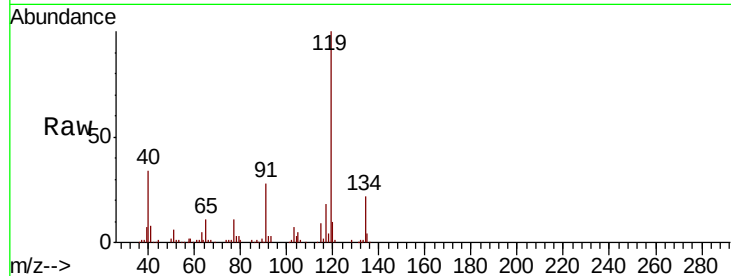




#69
 p-Isopropyltoluene
 Concen: 0.315 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. -0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

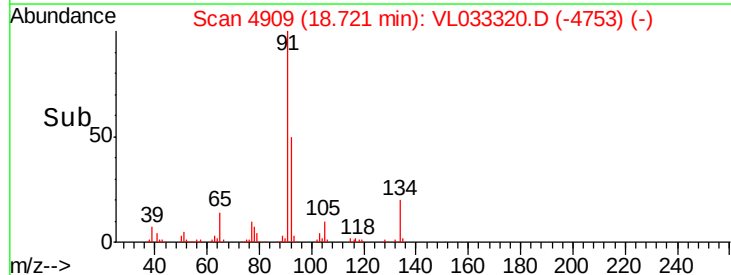
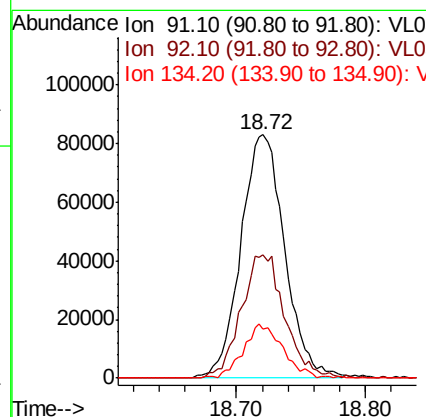
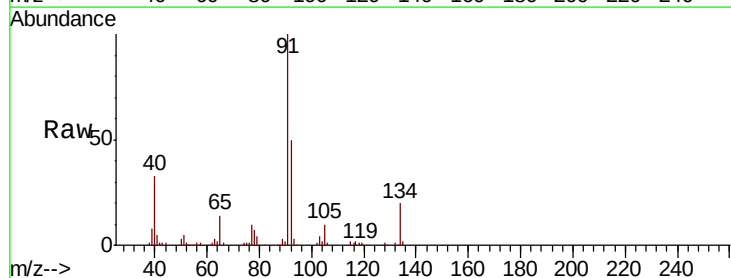
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

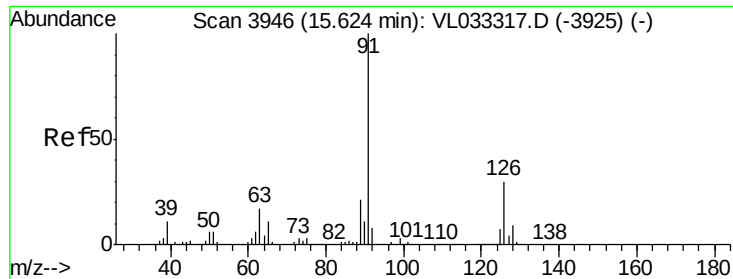
Tgt Ion	Ratio	Lower	Upper
119	100		
134	0.0	19.9	29.9#
91	0.0	23.7	35.5#



#70
 n-Butylbenzene
 Concen: 0.595 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.1	42.7	64.1
134	20.3	17.4	26.0

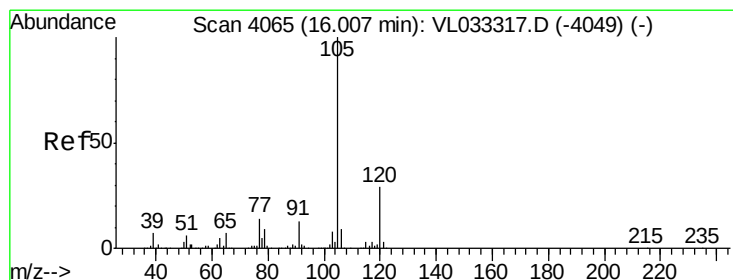
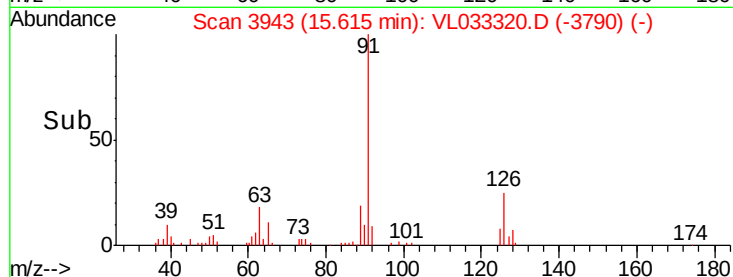
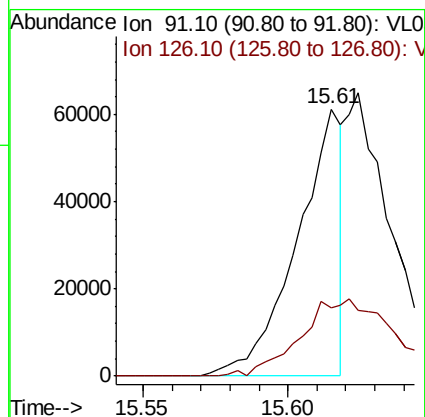
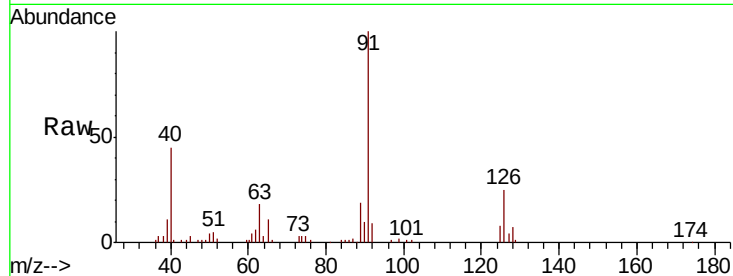




#71
 2-Chlorotoluene
 Concen: 0.276 ppbv
 RT: 15.61 min Scan# 3943
 Delta R.T. -0.01 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

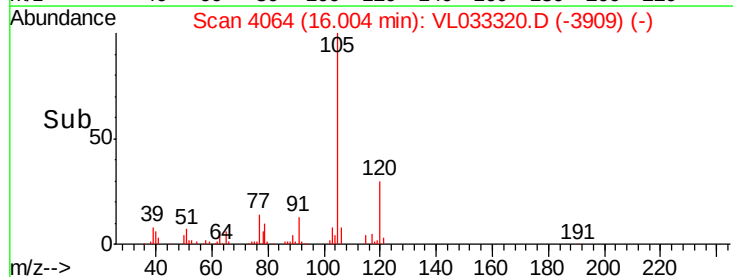
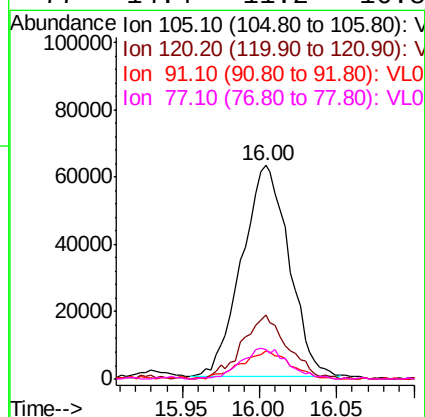
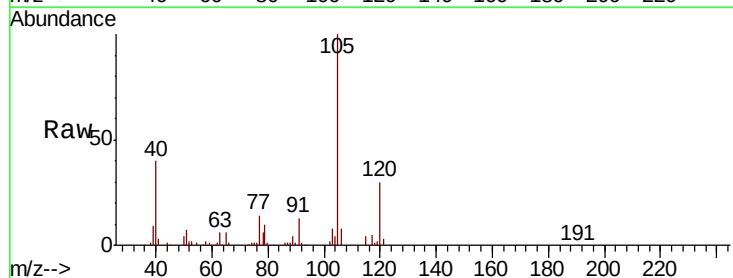
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

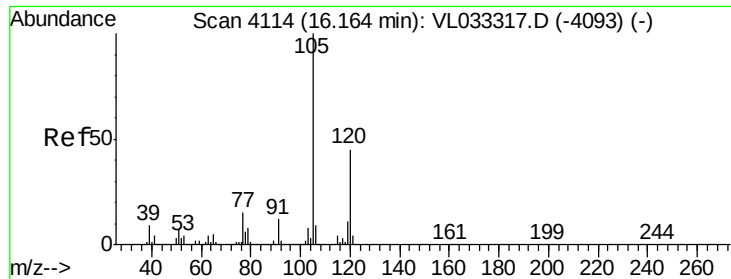
Tgt Ion: 91 Resp: 66173
 Ion Ratio Lower Upper
 91 100
 126 0.0 11.8 47.2#



#72
 4-Ethyltoluene
 Concen: 0.546 ppbv
 RT: 16.00 min Scan# 4064
 Delta R.T. -0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Tgt Ion: 105 Resp: 133872
 Ion Ratio Lower Upper
 105 100
 120 29.4 22.6 33.8
 91 13.7 10.4 15.6
 77 14.4 11.2 16.8

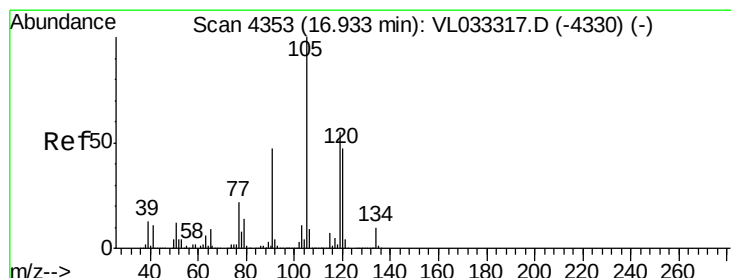
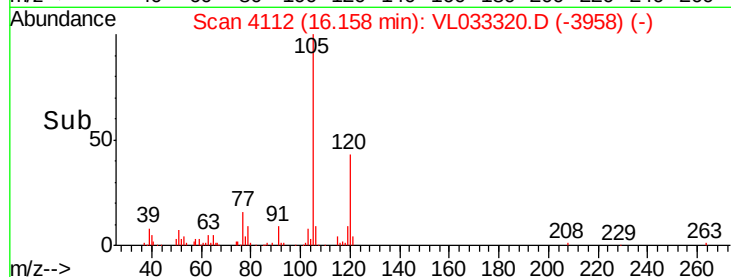
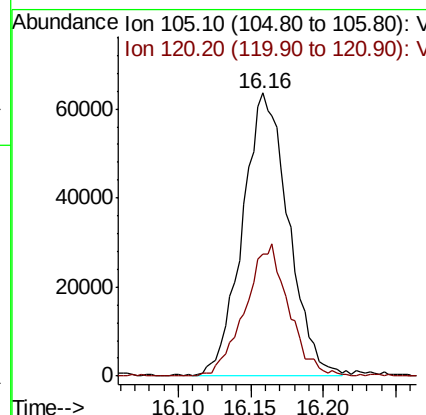
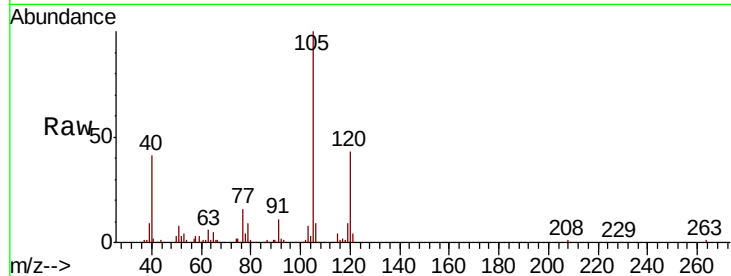




#73
 1,3,5-Trimethylbenzene
 Concen: 0.603 ppbv
 RT: 16.16 min Scan# 4112
 Delta R.T. -0.01 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

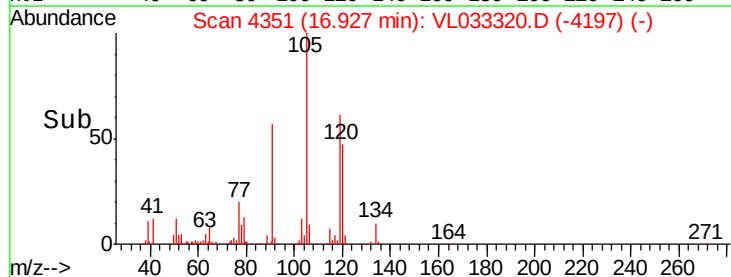
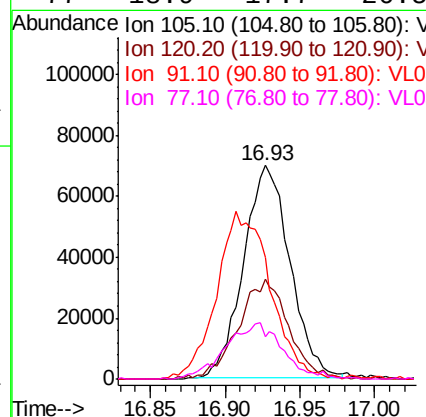
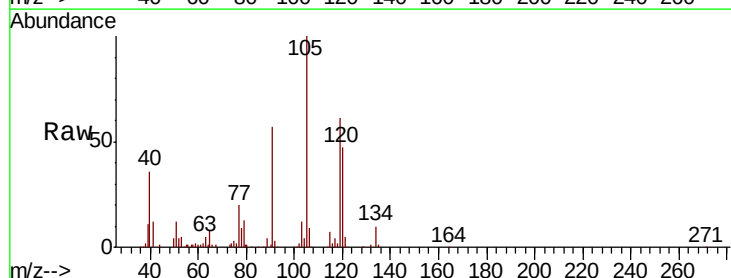
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

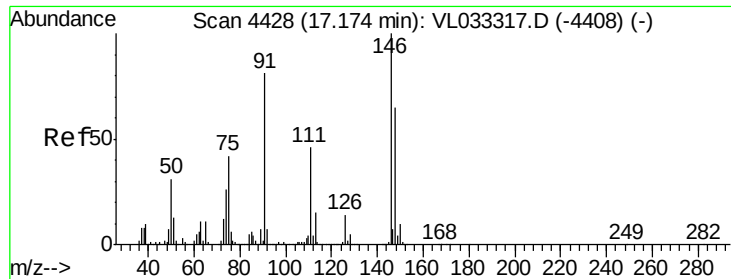
Tgt Ion:105 Resp: 138762
 Ion Ratio Lower Upper
 105 100
 120 47.7 36.2 54.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.642 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Tgt Ion:105 Resp: 150902
 Ion Ratio Lower Upper
 105 100
 120 46.3 37.2 55.8
 91 57.5 38.1 57.1#
 77 18.9 17.7 26.5





#75

1,3-Dichlorobenzene

Concen: 0.338 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

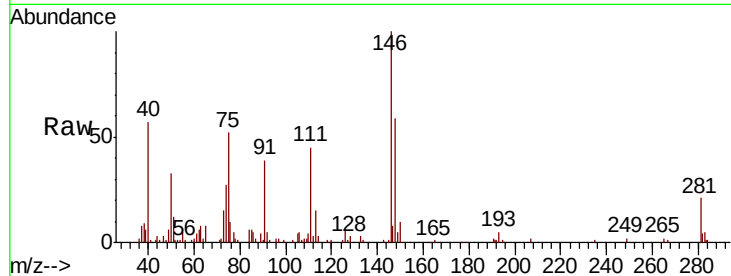
Tgt Ion:146 Resp: 49790

Ion Ratio Lower Upper

146 100

111 0.0 22.9 68.7#

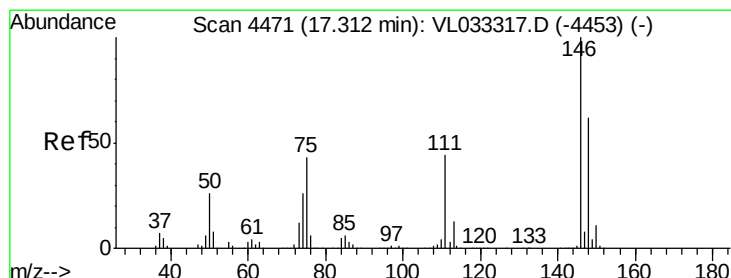
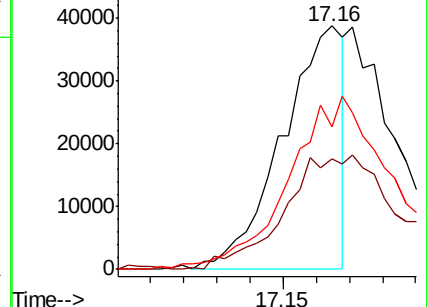
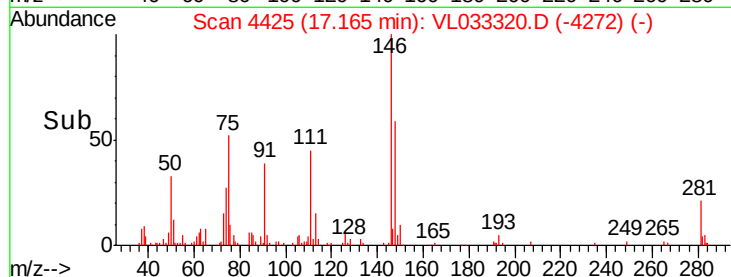
148 120.7 32.2 96.6#



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: 0.578 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

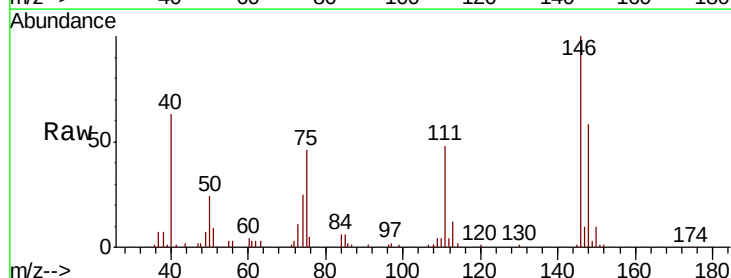
Tgt Ion:146 Resp: 83196

Ion Ratio Lower Upper

146 100

111 46.0 22.5 67.5

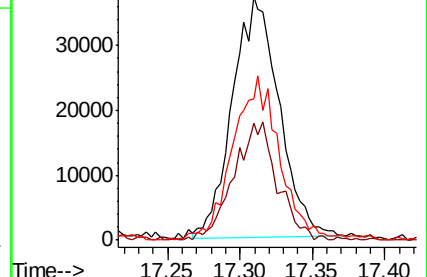
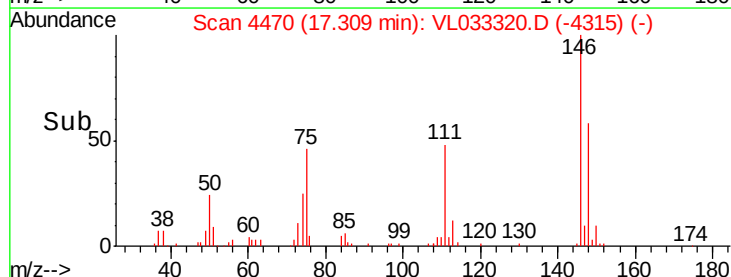
148 69.1 32.3 96.8

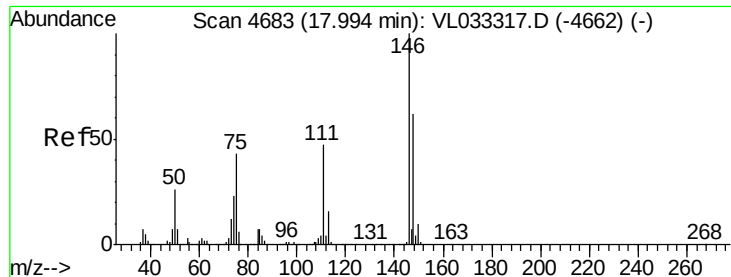


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

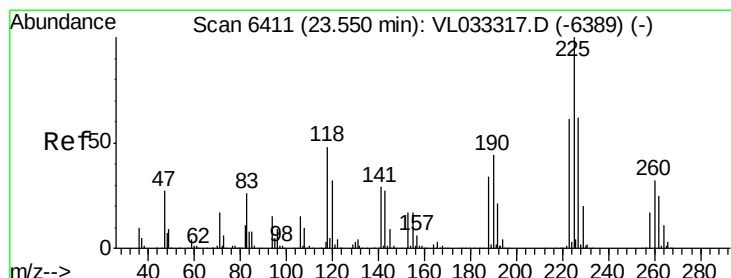
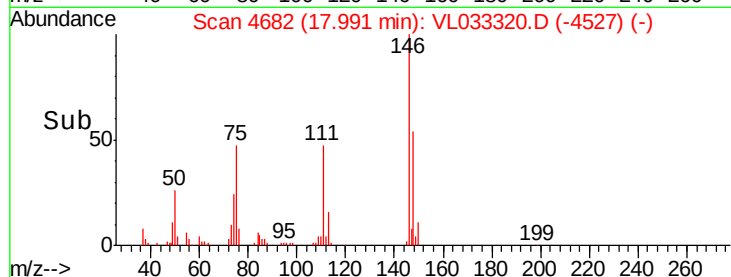
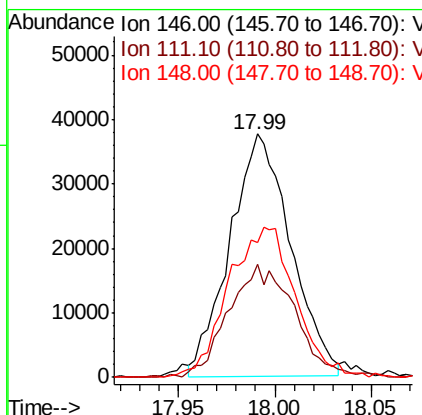
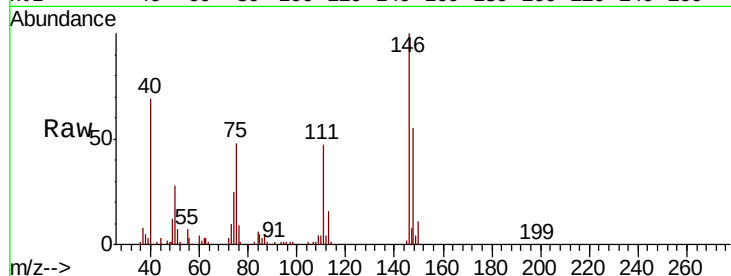




#77
 1,2-Dichlorobenzene
 Concen: 0.572 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.00 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

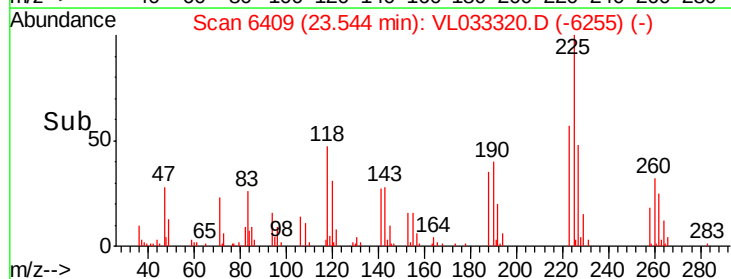
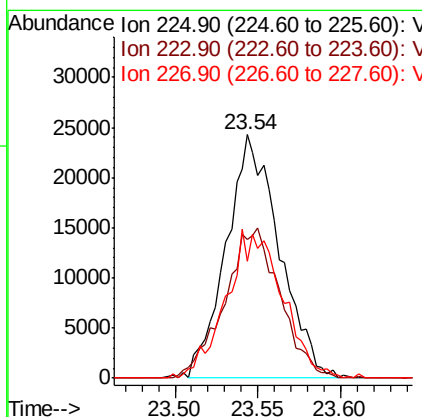
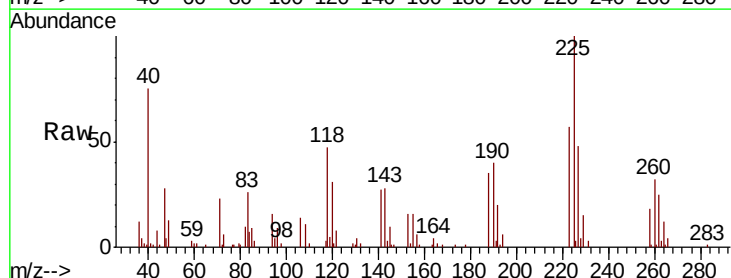
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

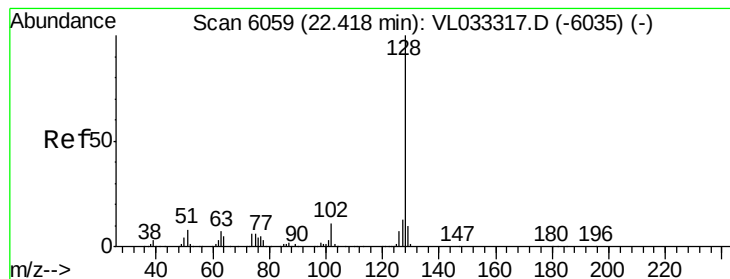
Tgt Ion:146 Resp: 82270
 Ion Ratio Lower Upper
 146 100
 111 51.0 23.6 71.0
 148 68.2 31.6 95.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.547 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.01 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Tgt Ion:225 Resp: 54047
 Ion Ratio Lower Upper
 225 100
 223 64.4 50.5 75.7
 227 64.6 50.9 76.3





#79

Naphthalene

Concen: 0.675 ppbv

RT: 22.42 min Scan# 6060

Delta R.T. 0.00 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

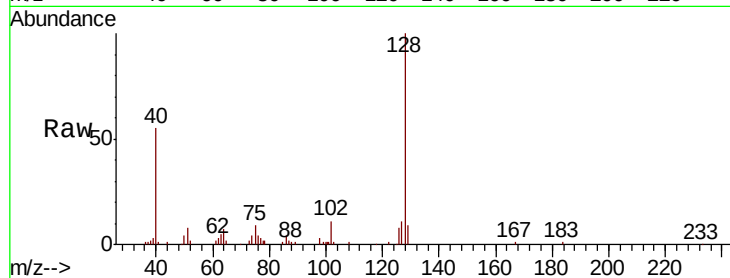
Tgt Ion:128 Resp: 129016

Ion Ratio Lower Upper

128 100

127 10.7 10.5 15.7

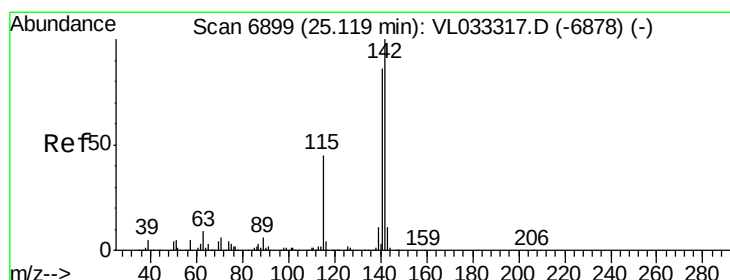
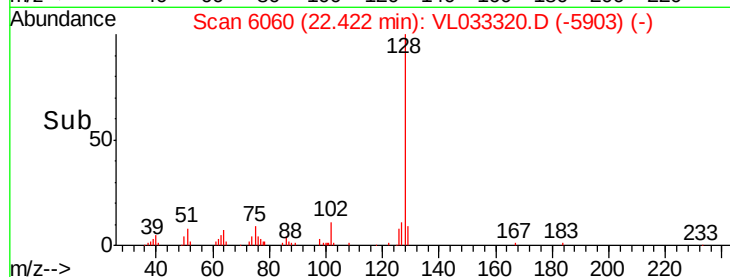
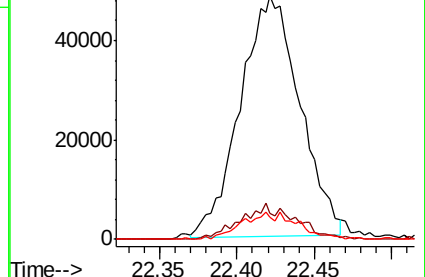
129 9.0 8.3 12.5



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: 1.009 ppbv

RT: 25.13 min Scan# 6901

Delta R.T. 0.01 min

Lab File: VL033320.D

Acq: 15 Mar 2019 4:51

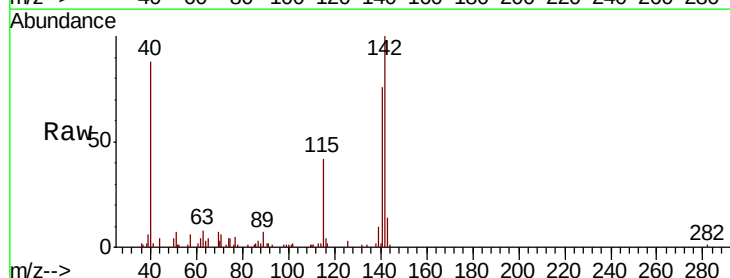
Tgt Ion:142 Resp: 55826

Ion Ratio Lower Upper

142 100

141 88.3 67.4 101.0

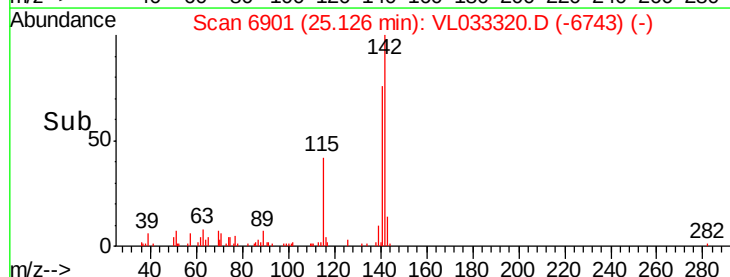
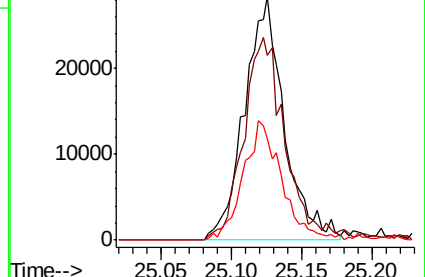
115 47.2 33.8 50.8

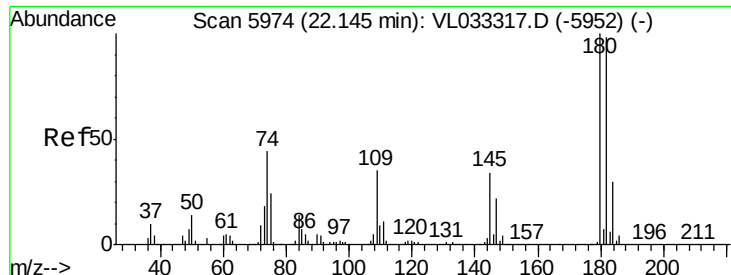


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

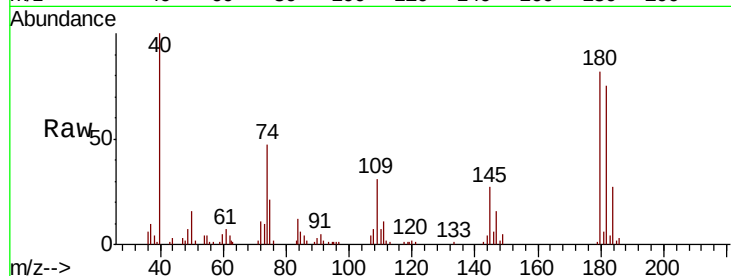




#81
 1,2,4-Trichlorobenzene
 Concen: 0.222 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL033320.D
 Acq: 15 Mar 2019 4:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:180 Resp: 24165
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.6 114.8#
 184 0.0 24.3 36.5#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

