

Data File : VL034027.D
Acq On : 11 Jul 2019 21:25
Operator : SY/AP
Sample : K3747-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
NVS-1

Quant Time: Jul 12 07:02:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1119858	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2894316	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	3036252	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.53	95	2584037	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.06	85	22330	0.097	ppbv	92
3) Chlorodifluoromethane	3.32	51	609354	4.407	ppbv #	55
4) Chloromethane	3.15	50	32420	0.408	ppbv	90
7) Chloroethane	3.58	64	1478	0.046	ppbv #	66
9) Propene	3.02	41	4854919	95.435	ppbv	94
10) Heptane	8.21	43	450020	3.533	ppbv	99
11) Trichlorofluoromethane	3.98	101	63014	0.242	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.53	101	6313	0.034	ppbv #	6
13) Ethanol	3.64	45	1454453	92.032	ppbv	93
15) Acetone	3.88	43	10019851	53.217	ppbv #	64
16) 1,3-Butadiene	3.32	39	4108014	61.789	ppbv #	24
17) tert-Butyl alcohol	4.35	59	306108	2.039	ppbv #	94
19) Isopropyl Alcohol	4.01	45	470497	3.723	ppbv #	94
20) Methylene Chloride	4.39	84	169217	2.061	ppbv	94
21) Allyl Chloride	4.44	41	79506	0.677	ppbv #	1
23) Vinyl Acetate	5.12	43	907451	4.829	ppbv #	84
25) Ethyl Acetate	5.74	43	659832	2.562	ppbv #	81
26) Hexane	5.75	57	913884	7.755	ppbv #	43
27) Carbon Disulfide	4.59	76	1244264	6.211	ppbv	98
30) Cyclohexane	7.21	84	167360	1.839	ppbv #	91
34) 2-Butanone	5.30	43	2617191	17.086	ppbv	100
36) Benzene	6.97	78	818019	3.612	ppbv	95
38) Trichloroethene	7.93	130	72523	0.720	ppbv	92
39) 1,2-Dichloropropane	7.26	63	713599	8.474	ppbv #	24
41) Tetrahydrofuran	6.11	42	6193	0.082	ppbv #	1
42) Bromodichloromethane	7.88	83	9567	0.043	ppbv #	36
43) Methyl Methacrylate	8.10	69	10333	0.120	ppbv #	1
44) 2,2,4-Trimethylpentane	7.95	57	186069	0.476	ppbv #	10
50) 4-Methyl-2-Pentanone	8.83	43	249501	1.098	ppbv	99
51) 2-Hexanone	10.23	43	421973	2.302	ppbv #	83
53) Toluene	9.91	91	4439160	17.124	ppbv	99
57) Chlorobenzene	12.26	112	17651	0.073	ppbv #	52
58) Ethyl Benzene	12.82	91	1297591	3.554	ppbv	100
59) m/p-Xylene	13.08	91	4338126	13.122	ppbv	98
60) o-Xylene	13.81	91	1535640	4.643	ppbv	99
61) Styrene	13.65	104	30213	0.138	ppbv #	34
62) Isopropylbenzene	14.79	105	54364	0.107	ppbv #	50
64) n-propylbenzene	15.68	120	70823	0.537	ppbv #	1
65) tert-Butylbenzene	16.88	119	223357	0.517	ppbv #	75
67) sec-Butylbenzene	17.42	105	48480	0.080	ppbv #	91
69) p-Isopropyltoluene	17.78	119	57007	0.114	ppbv #	60

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071119\
Quantitation Report (Not Reviewed)

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QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

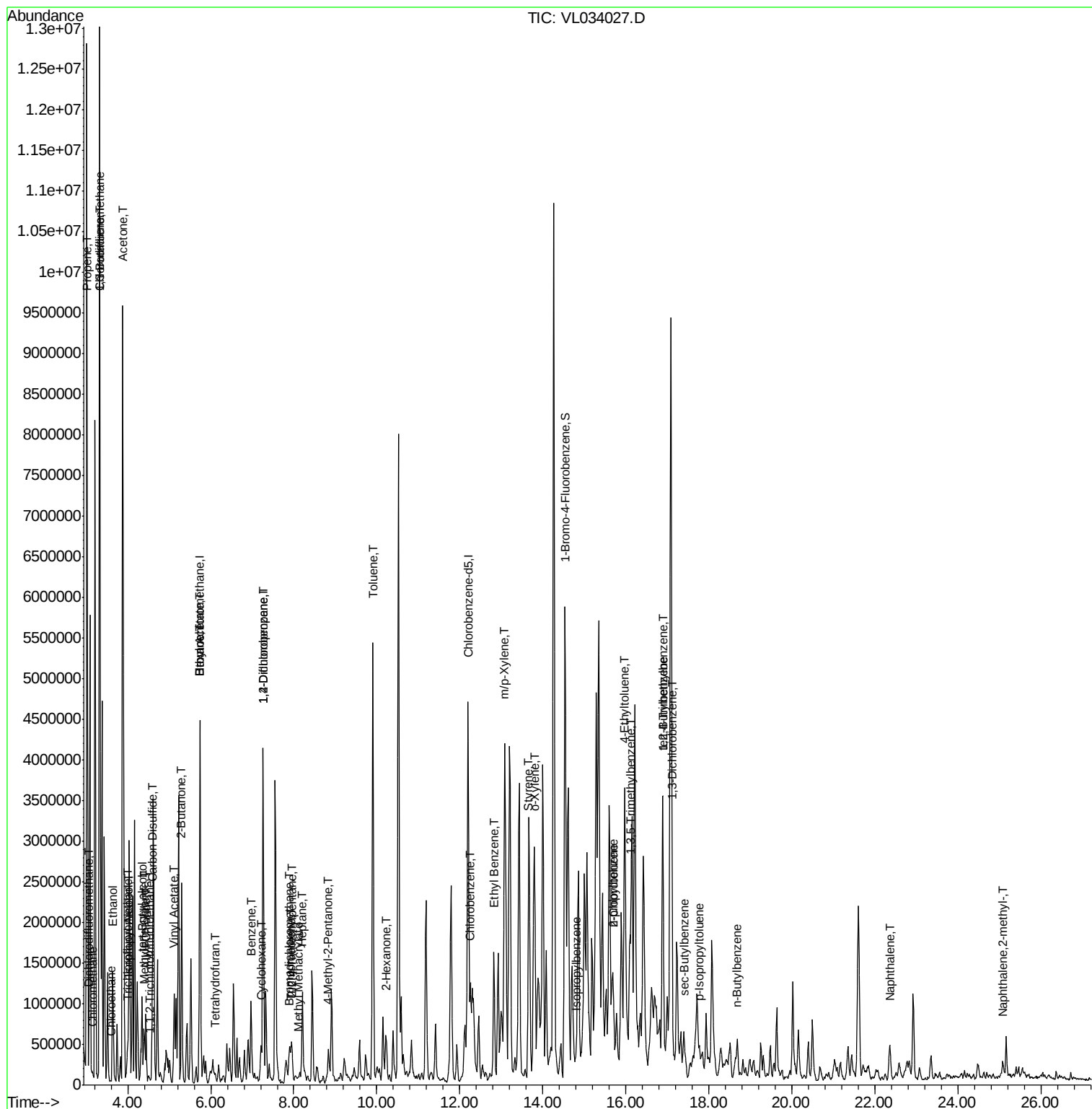
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	18.66	91	27473	0.052	ppbv #	34
71) 2-Chlorotoluene	15.68	91	281175	0.756	ppbv #	44
72) 4-Ethyltoluene	15.96	105	687898	1.620	ppbv	98
73) 1,3,5-Trimethylbenzene	16.12	105	349877	0.885	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	1995914	4.560	ppbv #	75
75) 1,3-Dichlorobenzene	17.12	146	8886	0.032	ppbv #	24
79) Naphthalene	22.36	128	215699	0.586	ppbv #	96
80) Naphthalene,2-methyl-	25.08	142	92221	0.689	ppbv #	93

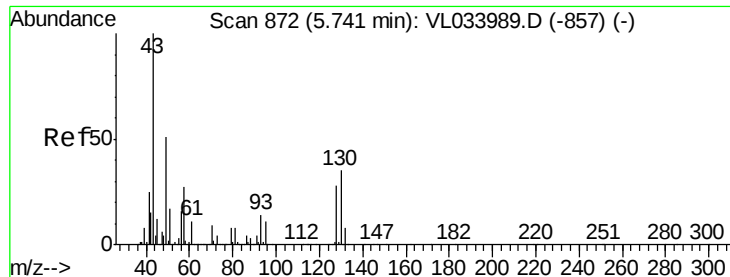
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

NVS-1

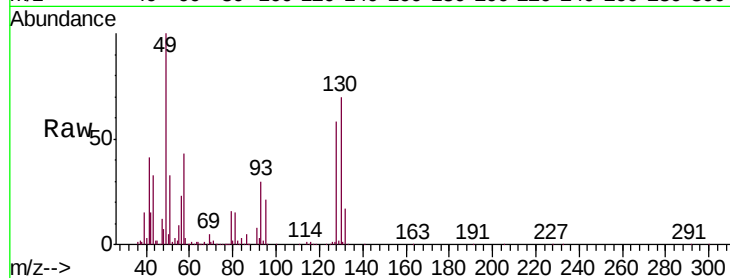
Tgt Ion: 49 Resp: 1119858

Ion Ratio Lower Upper

49 100

128 55.7 27.9 83.6

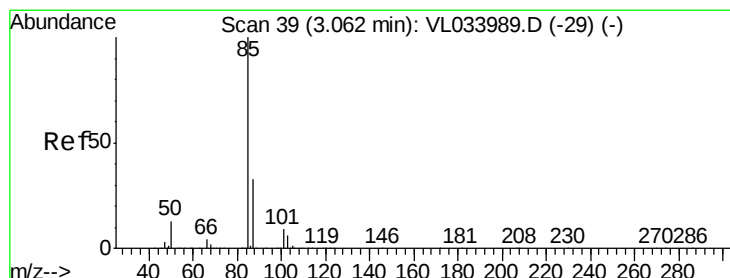
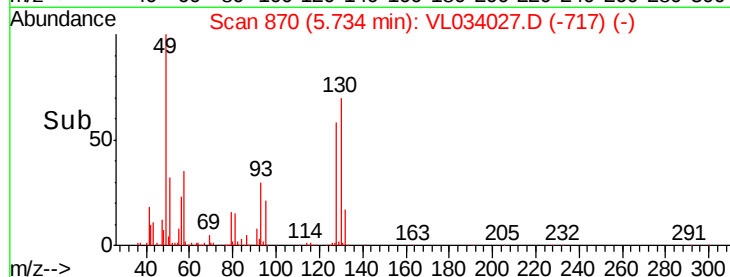
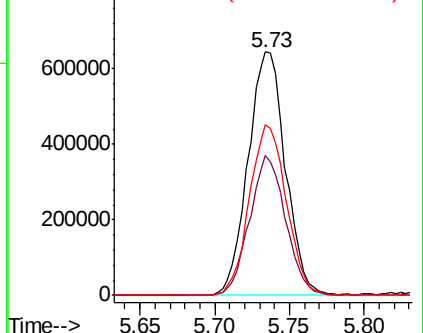
130 69.6 35.8 107.4



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



#2

Dichlorodifluoromethane

Concen: 0.097 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.00 min

Lab File: VL034027.D

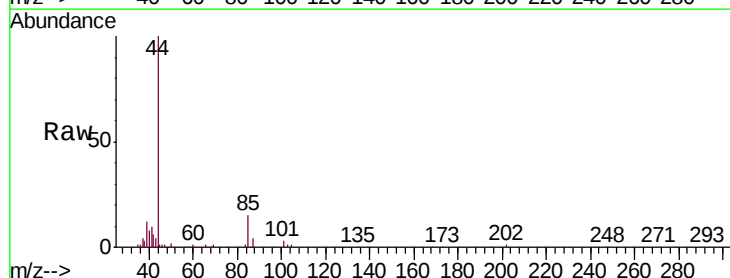
Acq: 11 Jul 2019 21:25

Tgt Ion: 85 Resp: 22330

Ion Ratio Lower Upper

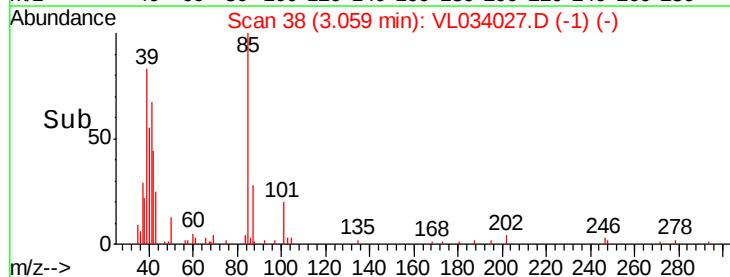
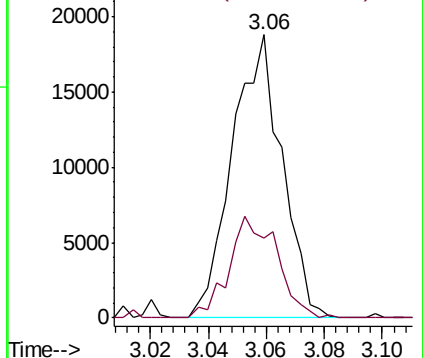
85 100

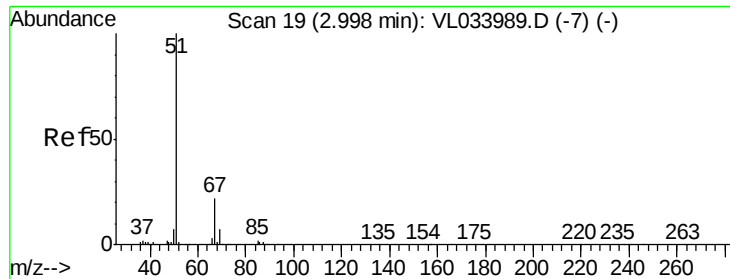
87 28.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

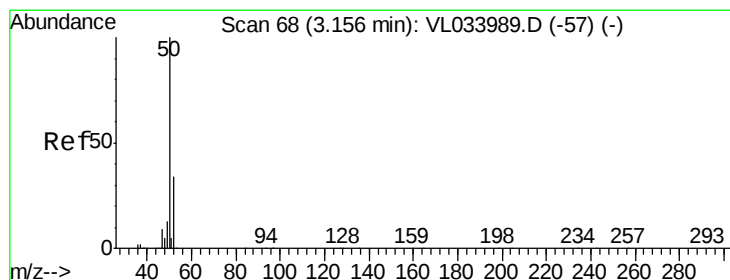
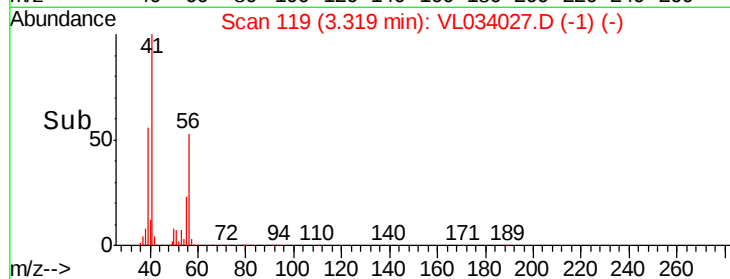
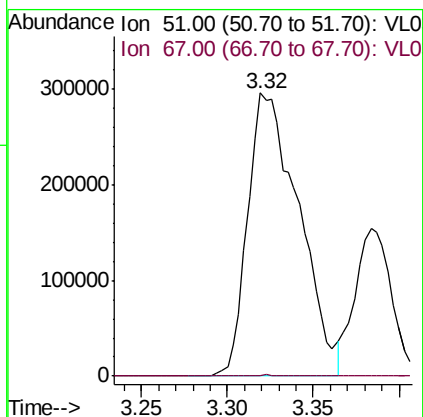
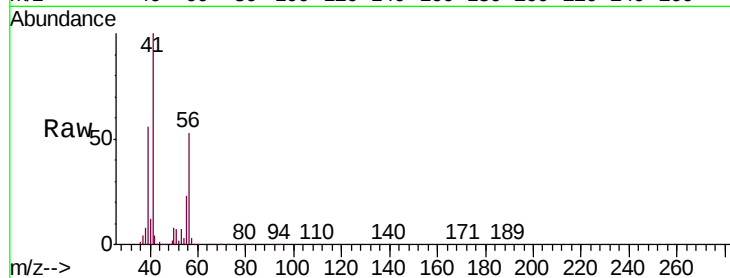




#3
 Chlorodifluoromethane
 Concen: 4.407 ppbv
 RT: 3.32 min Scan# 119
 Delta R.T. 0.32 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

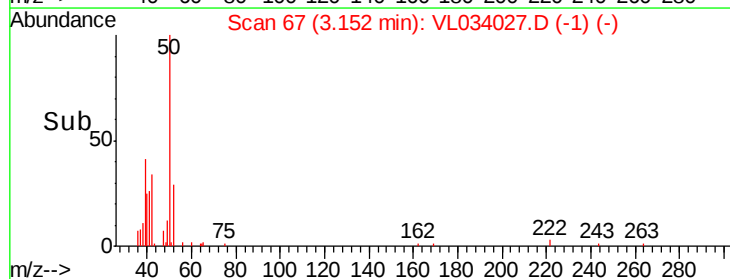
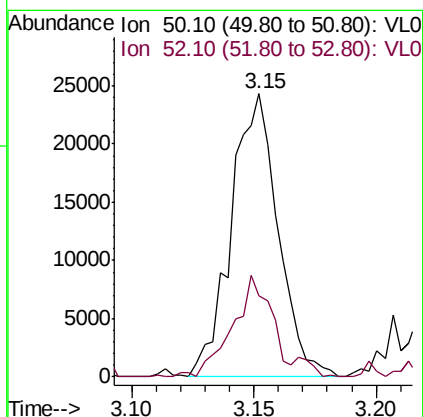
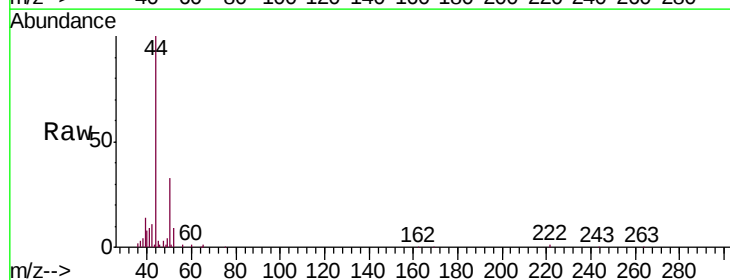
Instrument :
 MSVOA_L
 ClientSampleId :
 NVS-1

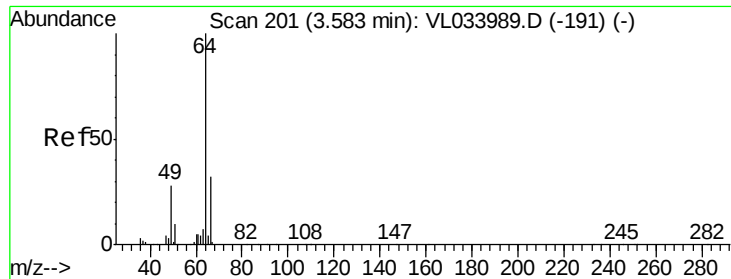
Tgt Ion: 51 Resp: 609354
 Ion Ratio Lower Upper
 51 100
 67 0.2 17.3 25.9#



#4
 Chloromethane
 Concen: 0.408 ppbv
 RT: 3.15 min Scan# 67
 Delta R.T. -0.00 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

Tgt Ion: 50 Resp: 32420
 Ion Ratio Lower Upper
 50 100
 52 28.7 27.4 41.0





#7

Chloroethane

Concen: 0.046 ppbv

RT: 3.58 min Scan# 201

Delta R.T. -0.00 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

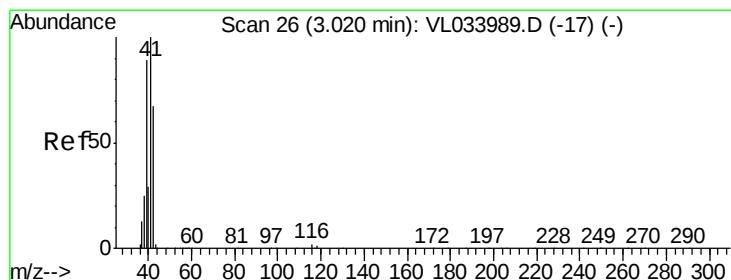
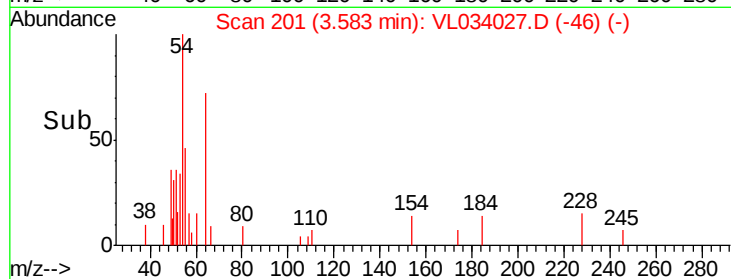
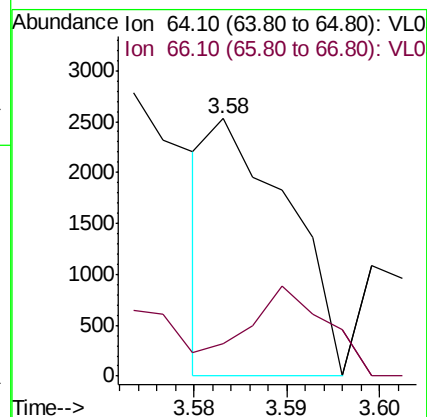
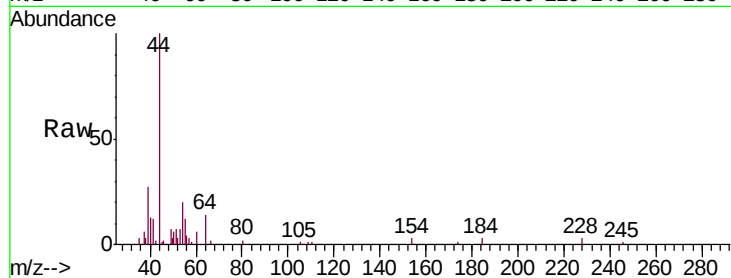
NVS-1

Tgt Ion: 64 Resp: 1478

Ion Ratio Lower Upper

64 100

66 12.5 25.3 37.9#



#9

Propene

Concen: 95.435 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL034027.D

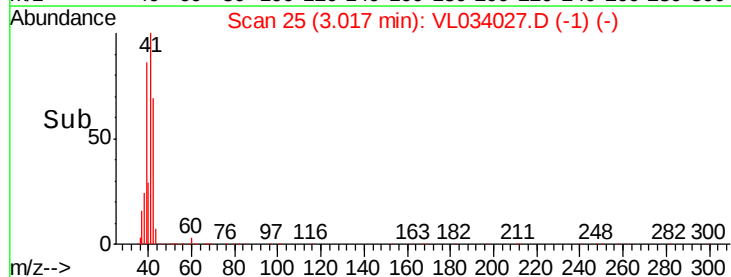
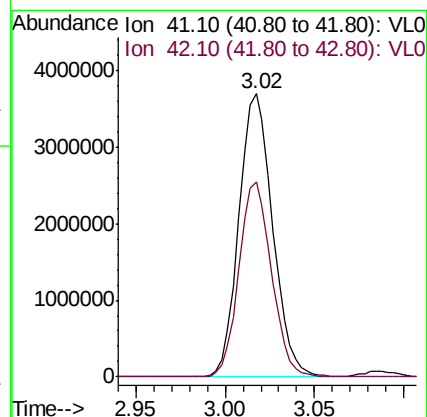
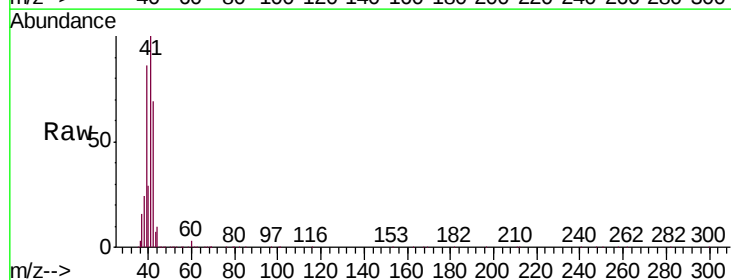
Acq: 11 Jul 2019 21:25

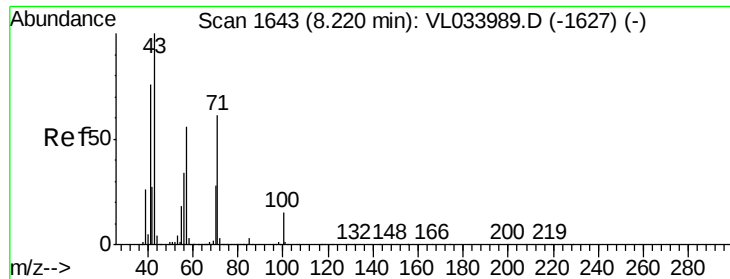
Tgt Ion: 41 Resp: 4854919

Ion Ratio Lower Upper

41 100

42 66.5 57.1 85.7

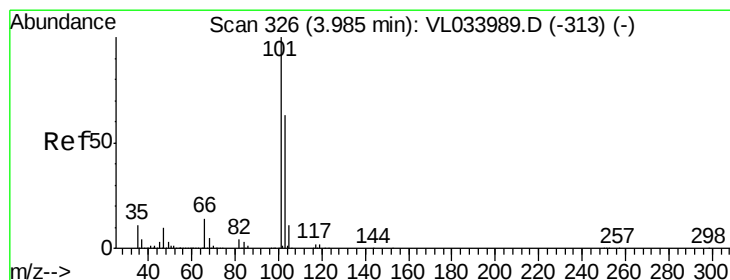
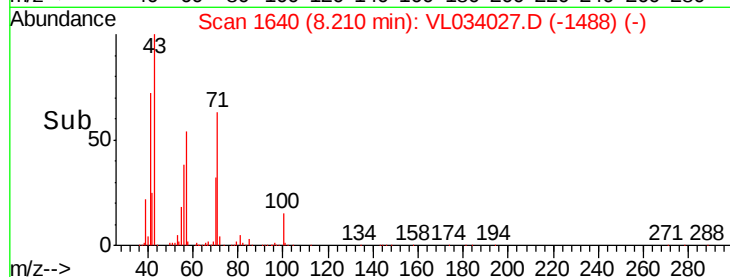
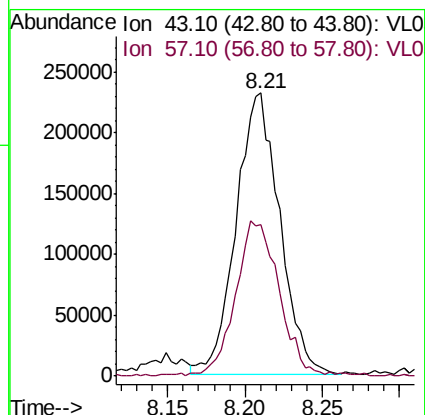
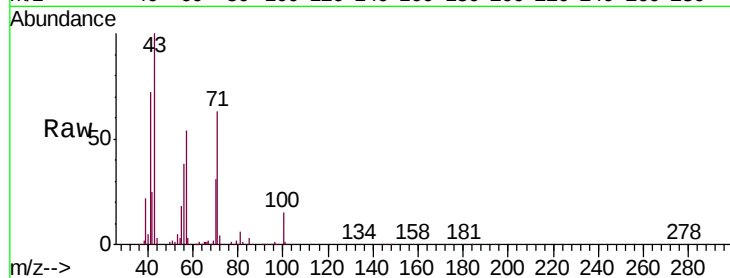




#10
 Heptane
 Concen: 3.533 ppbv
 RT: 8.21 min Scan# 1640
 Delta R.T. -0.01 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

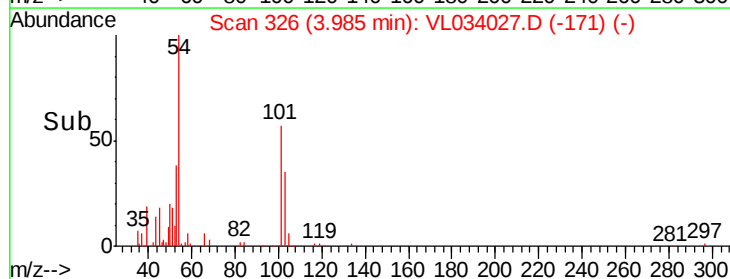
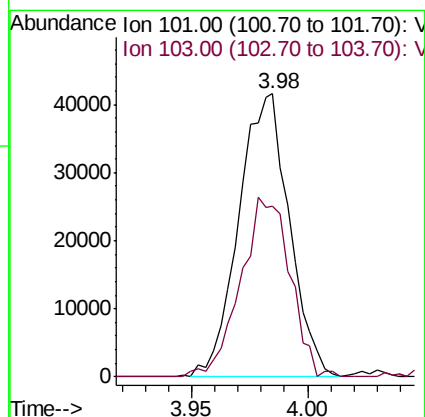
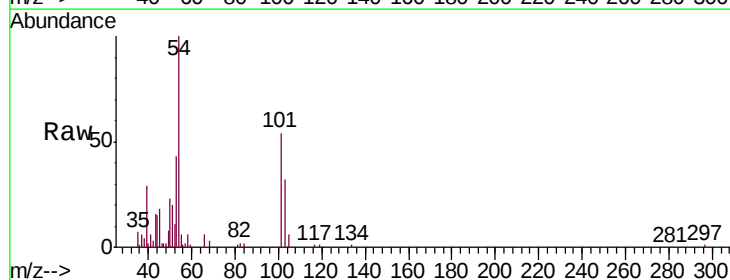
Instrument :
 MSVOA_L
 ClientSampleId :
 NVS-1

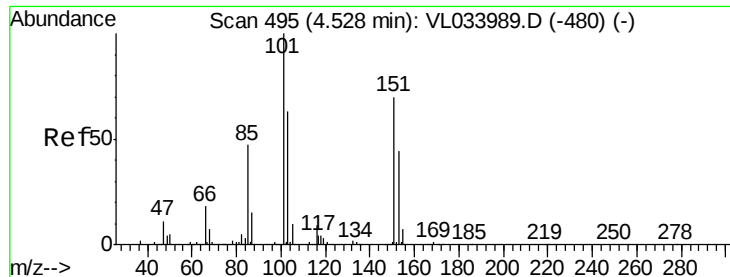
Tgt Ion: 43 Resp: 450020
 Ion Ratio Lower Upper
 43 100
 57 56.5 44.6 66.8



#11
 Trichlorofluoromethane
 Concen: 0.242 ppbv
 RT: 3.98 min Scan# 326
 Delta R.T. -0.00 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

Tgt Ion: 101 Resp: 63014
 Ion Ratio Lower Upper
 101 100
 103 60.5 50.8 76.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.034 ppbv

RT: 4.53 min Scan# 494

Delta R.T. -0.00 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

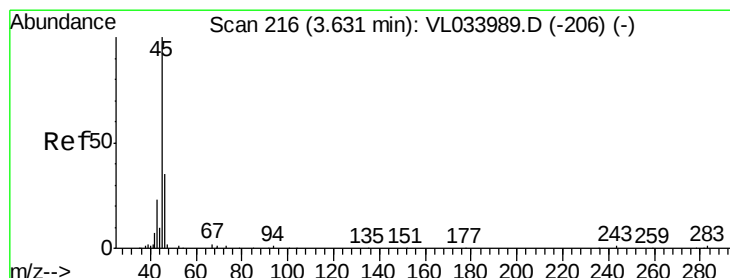
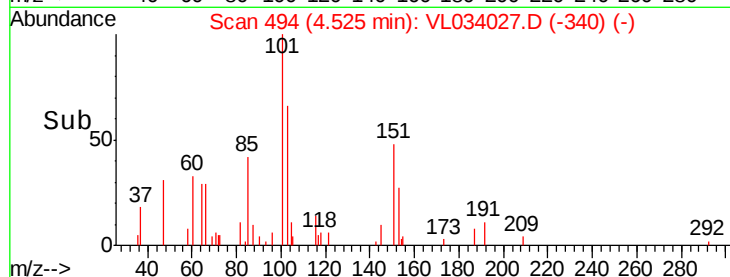
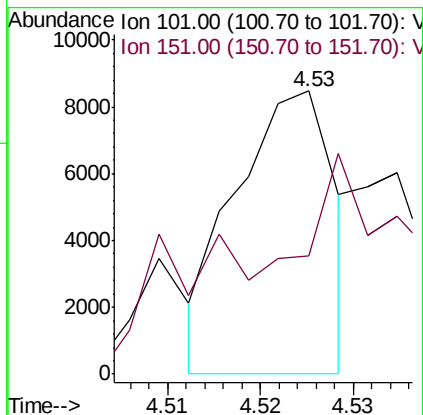
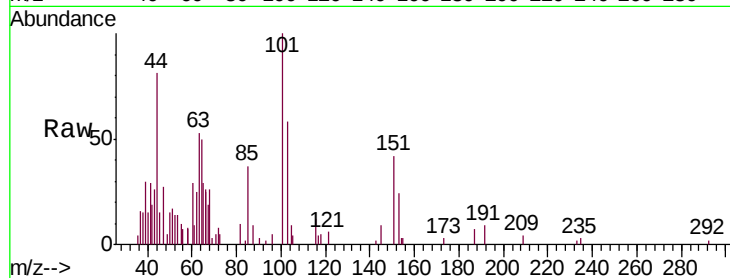
NVS-1

Tgt Ion: 101 Resp: 6313

Ion Ratio Lower Upper

101 100

151 152.6 59.0 88.4#



#13

Ethanol

Concen: 92.032 ppbv

RT: 3.64 min Scan# 218

Delta R.T. 0.01 min

Lab File: VL034027.D

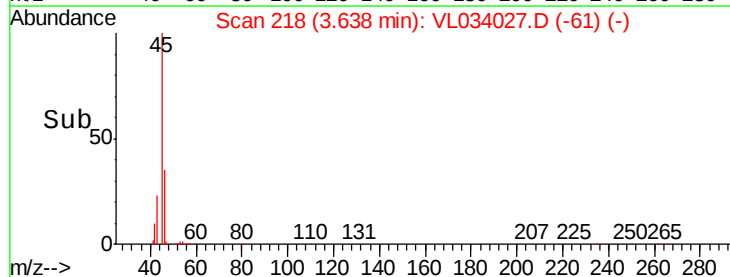
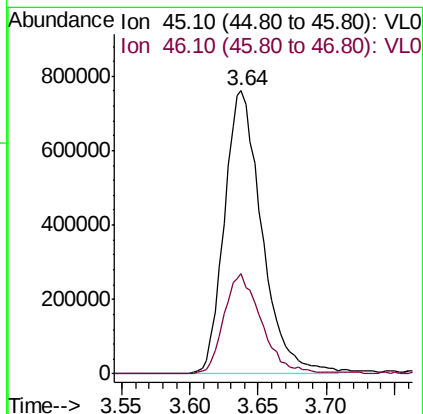
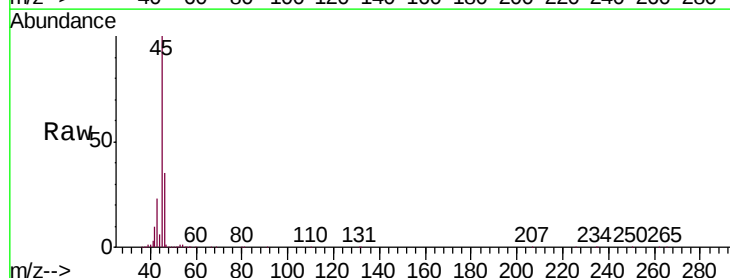
Acq: 11 Jul 2019 21:25

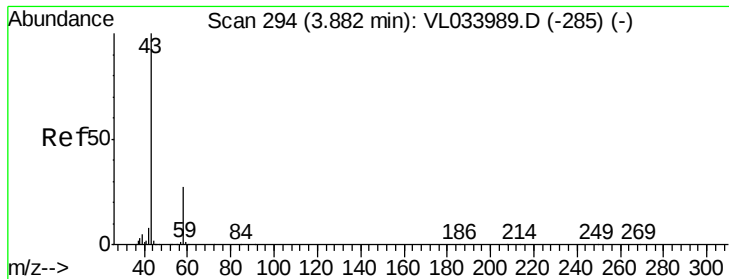
Tgt Ion: 45 Resp: 1454453

Ion Ratio Lower Upper

45 100

46 36.2 16.2 64.6





#15

Acetone

Concen: 53.217 ppbv

RT: 3.88 min Scan# 292

Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

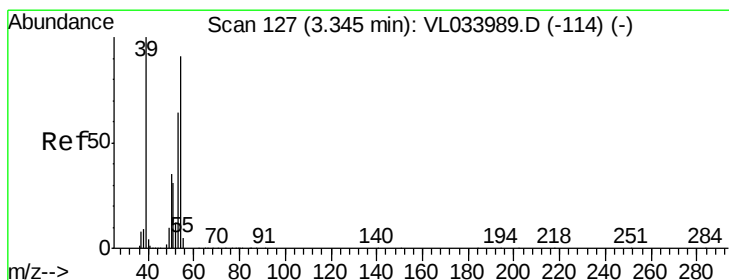
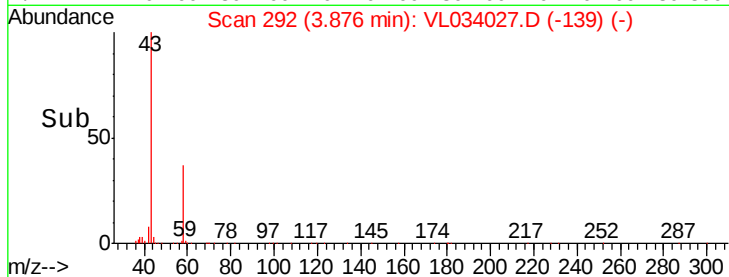
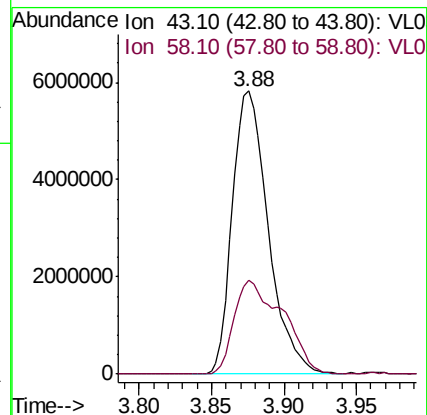
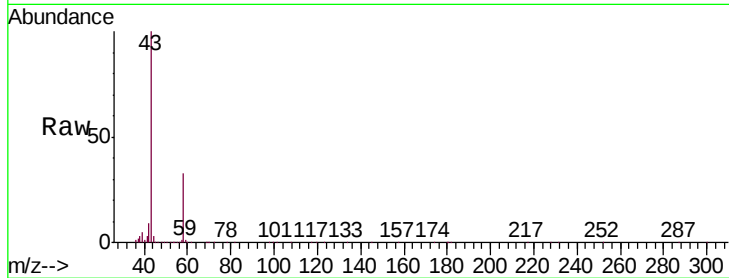
NVS-1

Tgt Ion: 43 Resp:10019851

Ion Ratio Lower Upper

43 100

58 45.2 21.4 32.0#



#16

1,3-Butadiene

Concen: 61.789 ppbv

RT: 3.32 min Scan# 120

Delta R.T. -0.02 min

Lab File: VL034027.D

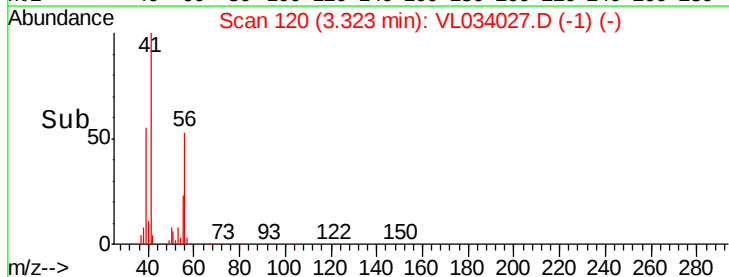
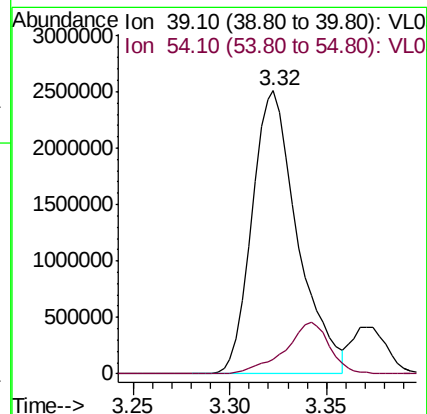
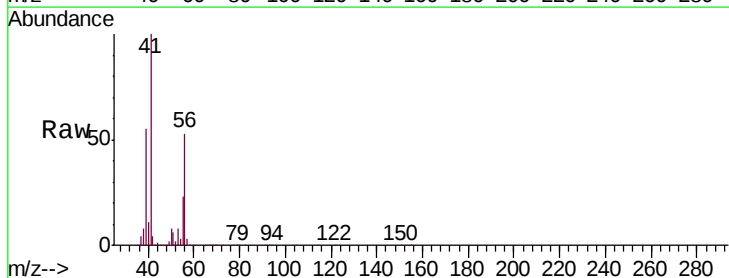
Acq: 11 Jul 2019 21:25

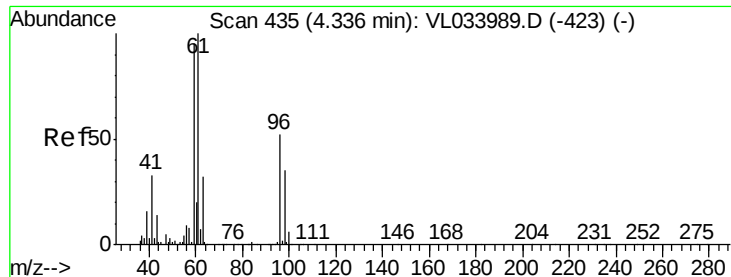
Tgt Ion: 39 Resp: 4108014

Ion Ratio Lower Upper

39 100

54 18.1 71.4 107.2#



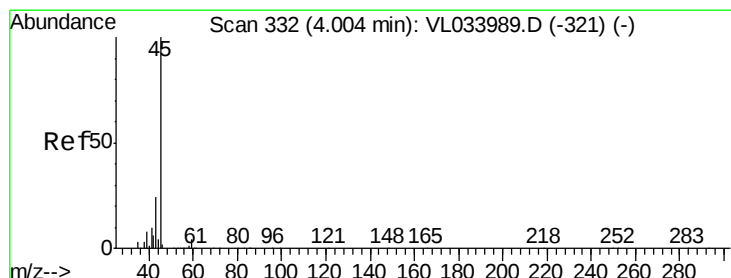
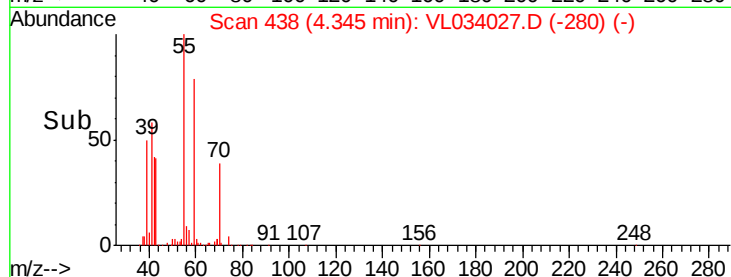
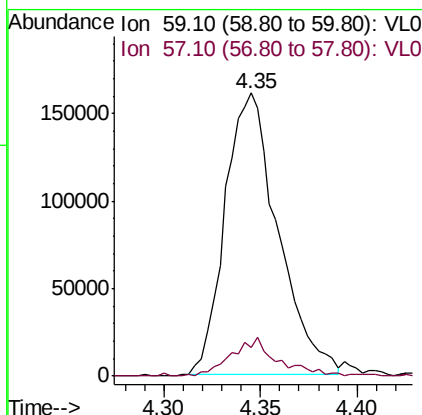
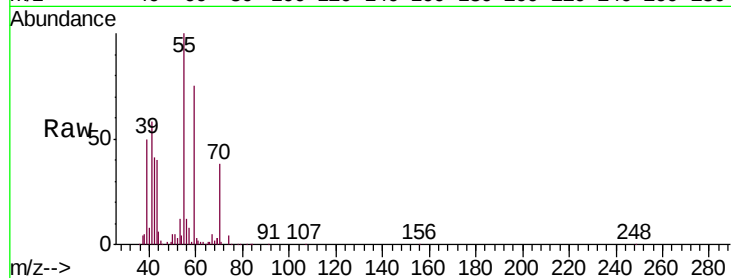


#17

tert-Butyl alcohol
Concen: 2.039 ppbv
RT: 4.35 min Scan# 438
Delta R.T. 0.01 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

Instrument :
MSVOA_L
ClientSampleId :
NVS-1

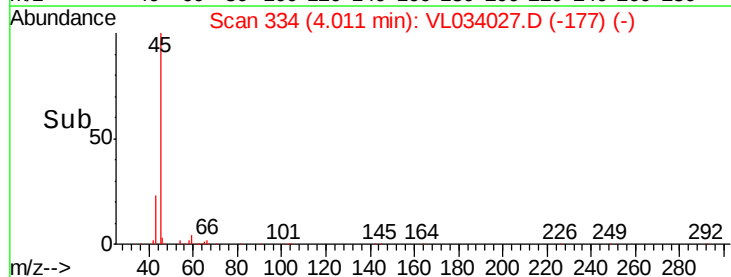
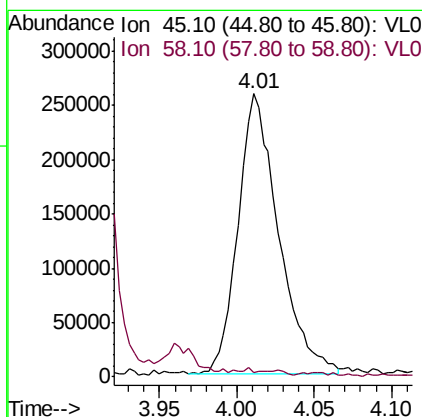
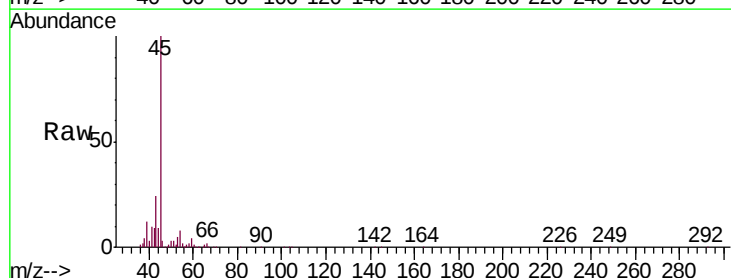
Tgt Ion: 59 Resp: 306108
Ion Ratio Lower Upper
59 100
57 12.5 8.2 12.2#

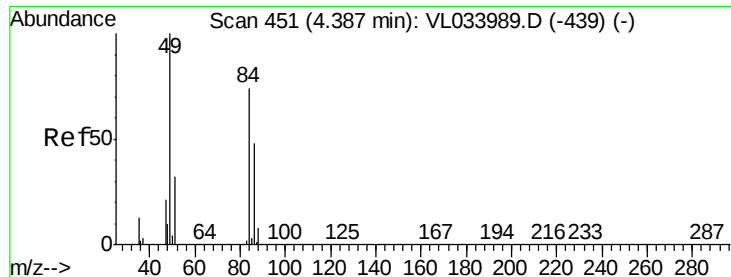


#19

Isopropyl Alcohol
Concen: 3.723 ppbv
RT: 4.01 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

Tgt Ion: 45 Resp: 470497
Ion Ratio Lower Upper
45 100
58 0.0 1.7 2.5#

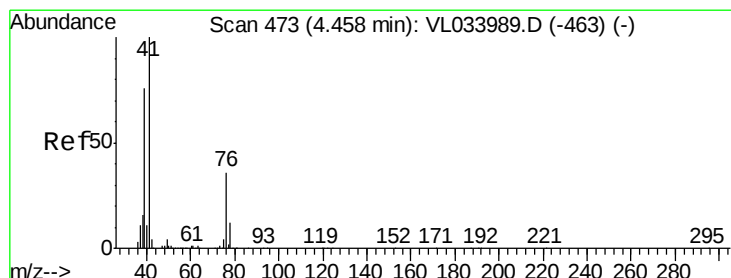
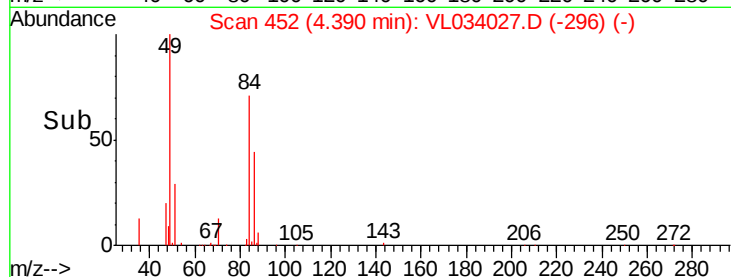
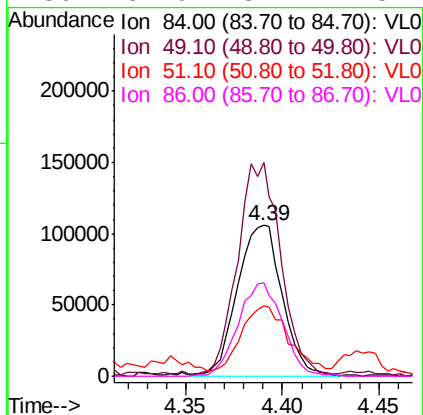
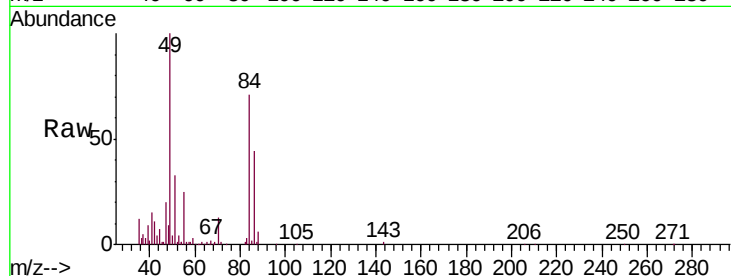




#20
Methylene Chloride
Concen: 2.061 ppbv
RT: 4.39 min Scan# 452
Delta R.T. 0.00 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

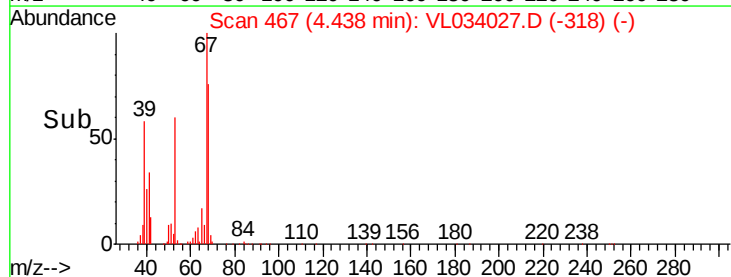
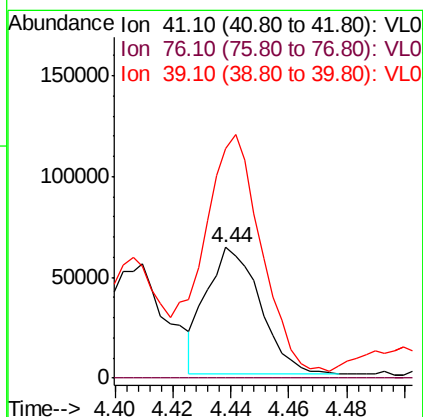
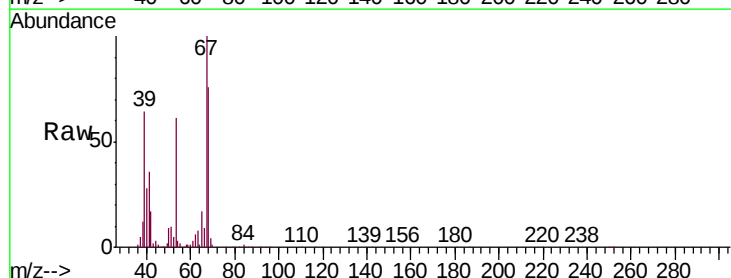
Instrument :
MSVOA_L
ClientSampleId :
NVS-1

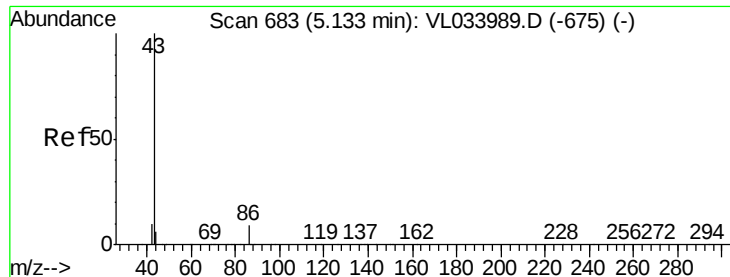
Tgt Ion:	84	Resp:	169217
Ion	Ratio	Lower	Upper
84	100		
49	141.0	107.6	161.4
51	36.8	35.0	52.6
86	61.9	52.1	78.1



#21
Allyl Chloride
Concen: 0.677 ppbv
RT: 4.44 min Scan# 467
Delta R.T. -0.02 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

Tgt Ion:	41	Resp:	79506
Ion	Ratio	Lower	Upper
41	100		
76	0.0	26.8	40.2#
39	296.1	63.1	94.7#





#23

Vinyl Acetate

Concen: 4.829 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

NVS-1

Tgt Ion: 43 Resp: 907451

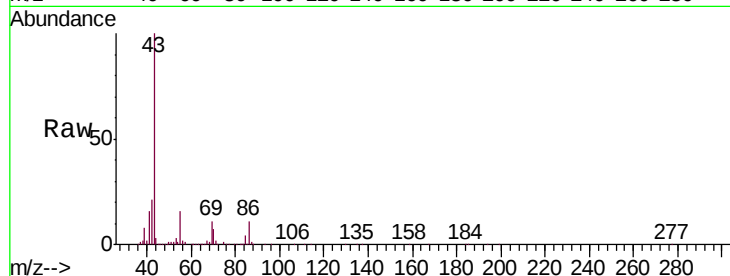
Ion Ratio Lower Upper

43 100

86 10.7 6.6 9.8#

42 20.5 8.3 12.5#

44 2.8 4.3 6.5#

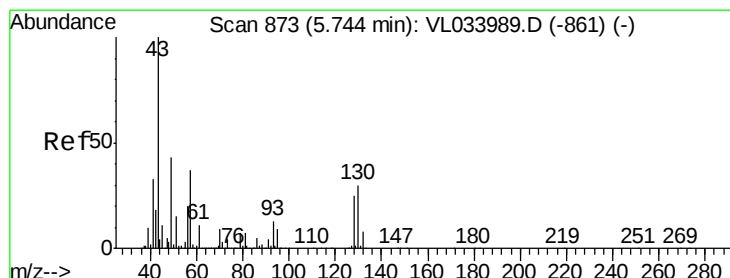
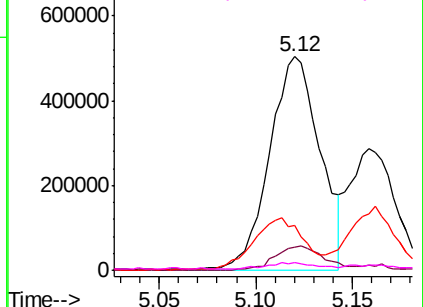
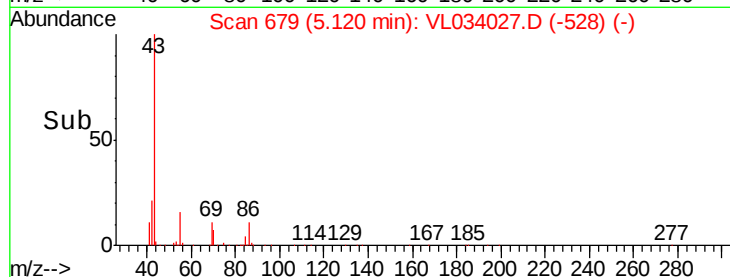


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 2.562 ppbv

RT: 5.74 min Scan# 873

Delta R.T. -0.00 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Tgt Ion: 43 Resp: 659832

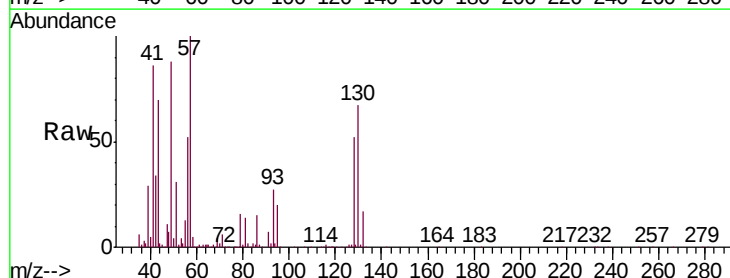
Ion Ratio Lower Upper

43 100

45 2.5 8.1 12.1#

61 2.1 8.1 12.1#

70 3.1 6.3 9.5#

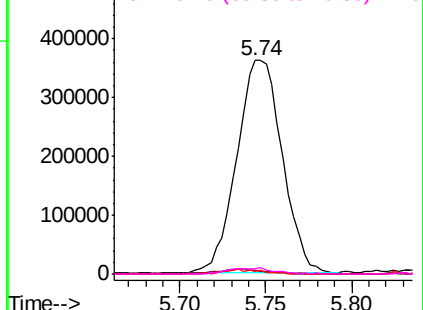
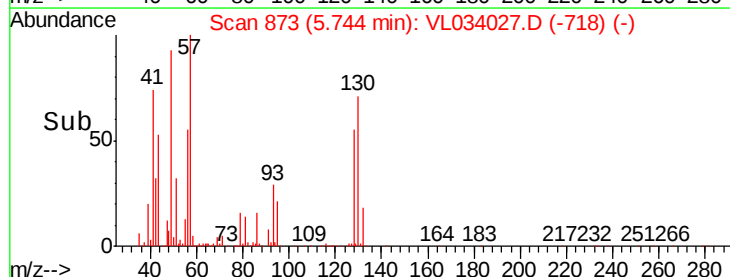


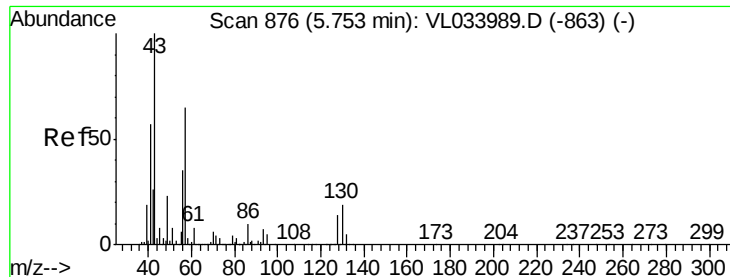
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 7.755 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

NVS-1

Tgt Ion: 57 Resp: 913884

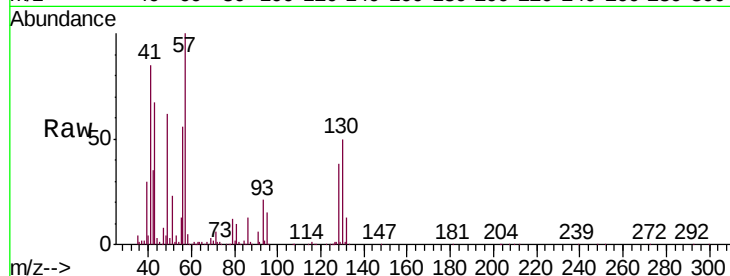
Ion Ratio Lower Upper

57 100

41 90.9 70.6 105.8

43 73.3 177.6 266.4#

56 56.1 42.6 64.0

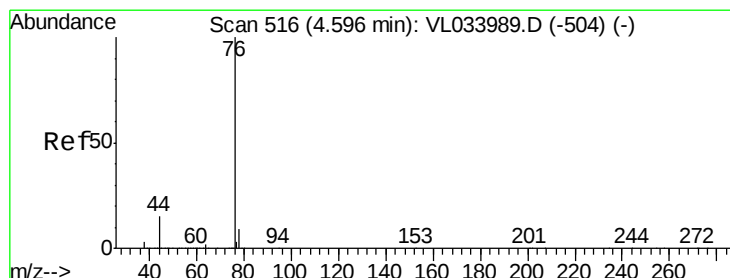
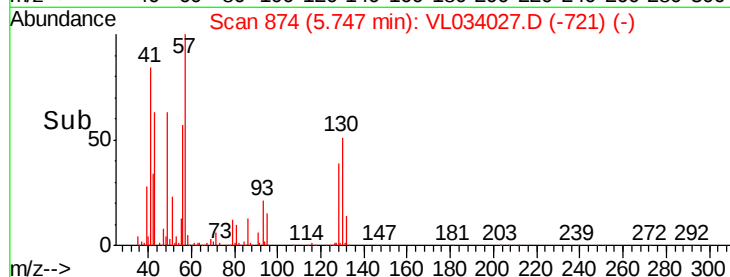
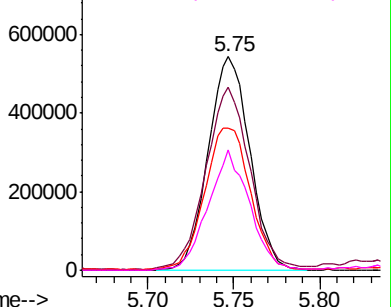


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 6.211 ppbv

RT: 4.59 min Scan# 515

Delta R.T. -0.00 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

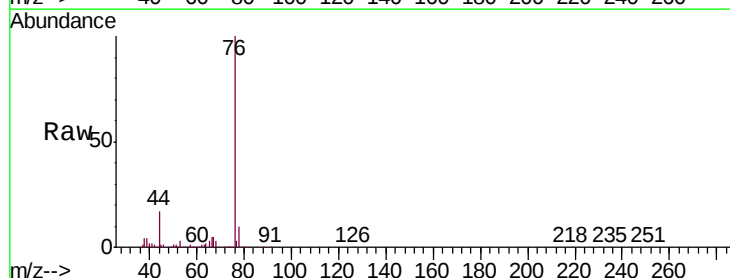
Tgt Ion: 76 Resp: 1244264

Ion Ratio Lower Upper

76 100

44 16.8 12.6 18.8

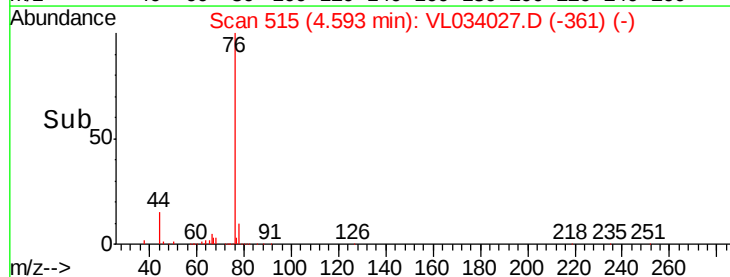
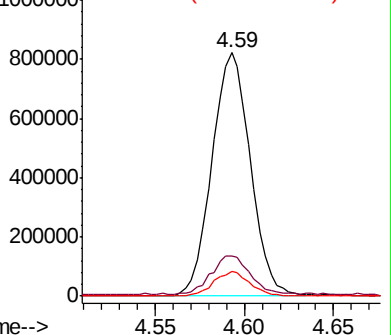
78 9.7 7.2 10.8

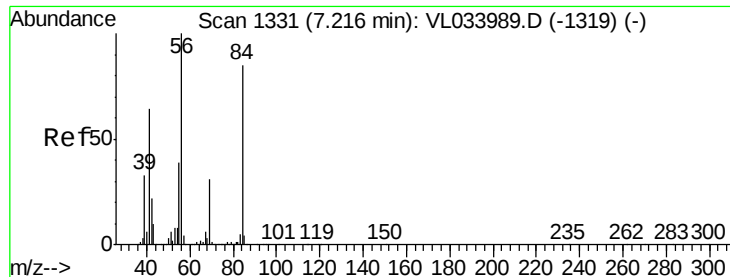


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

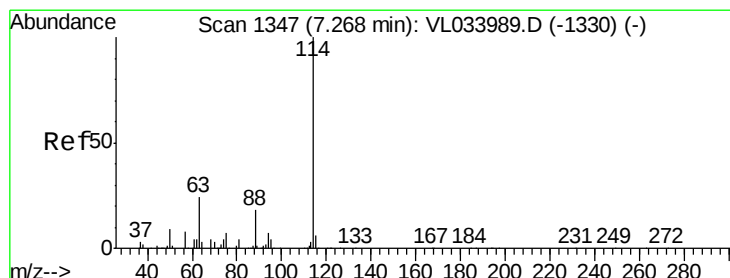
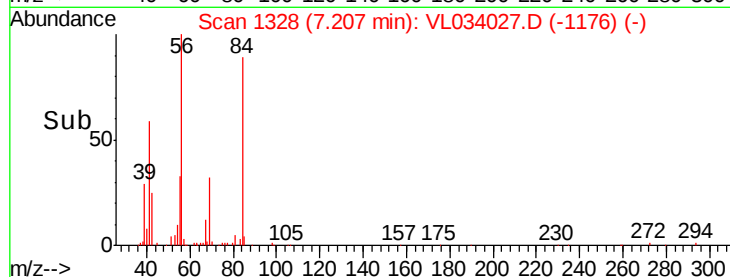
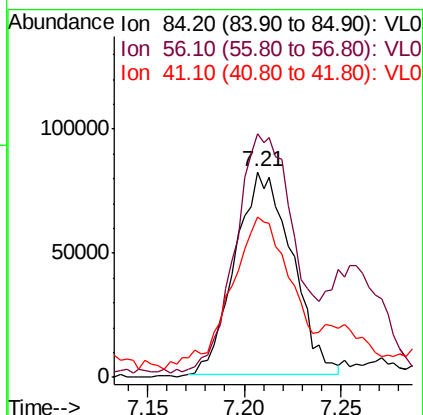
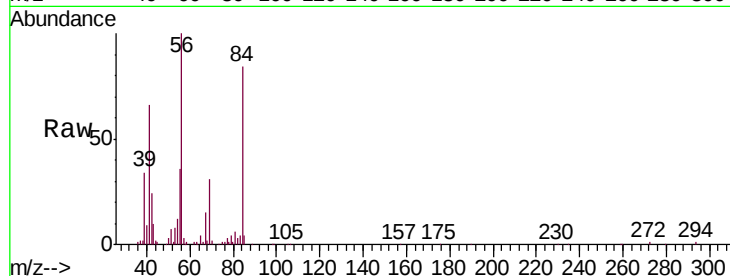




#30
Cyclohexane
Concen: 1.839 ppbv
RT: 7.21 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

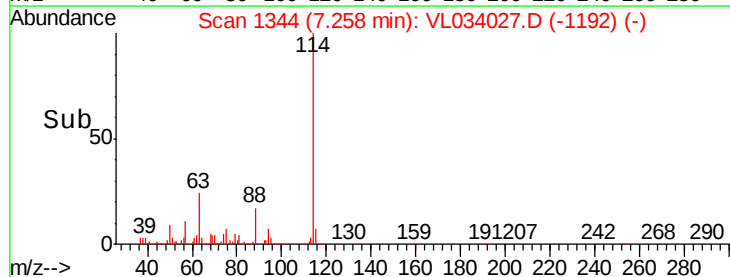
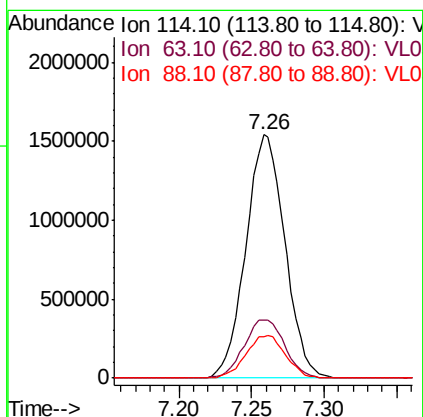
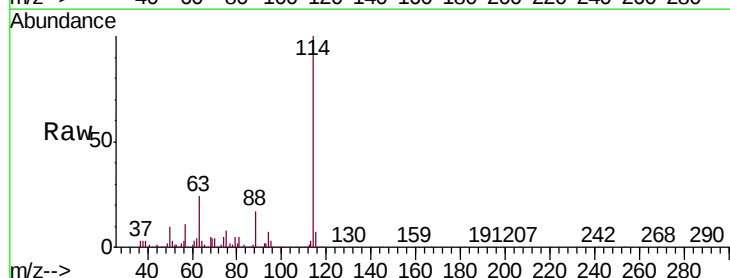
Instrument :
MSVOA_L
ClientSampleId :
NVS-1

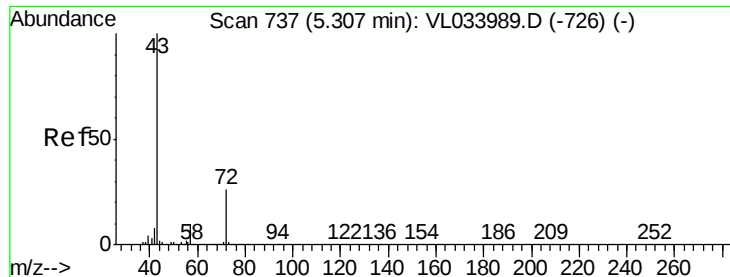
Tgt Ion: 84 Resp: 167360
Ion Ratio Lower Upper
84 100
56 126.8 103.7 155.5
41 96.0 62.6 94.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. -0.01 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

Tgt Ion: 114 Resp: 2894316
Ion Ratio Lower Upper
114 100
63 25.2 20.2 30.2
88 17.8 14.1 21.1

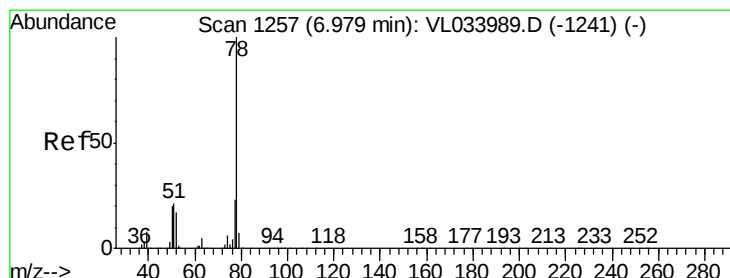
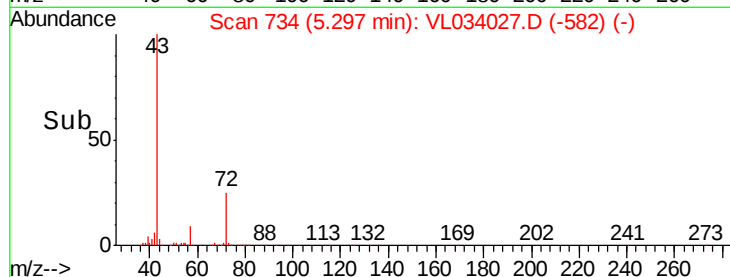
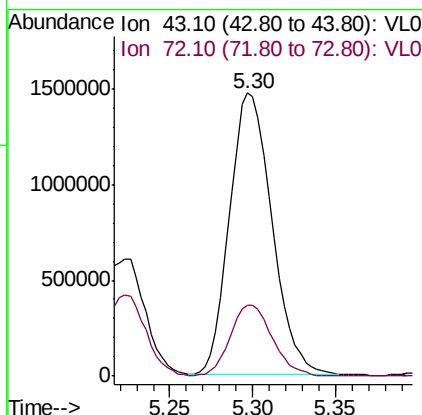
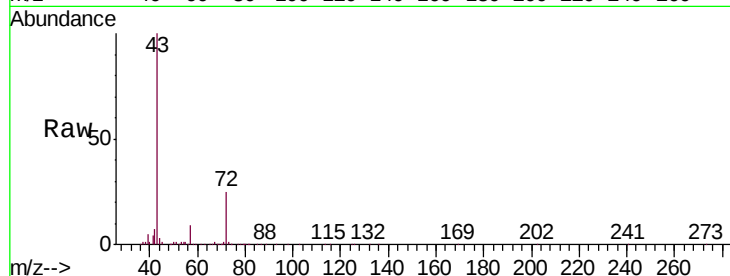




#34
2-Butanone
Concen: 17.086 ppbv
RT: 5.30 min Scan# 734
Delta R.T. -0.01 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

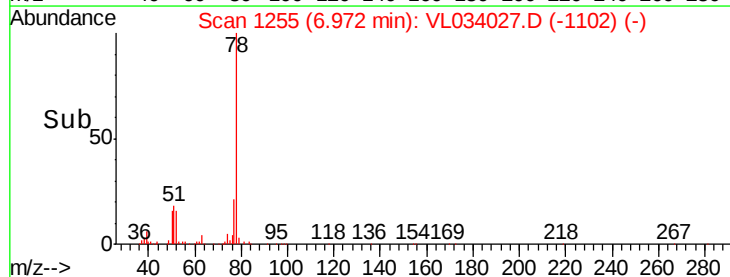
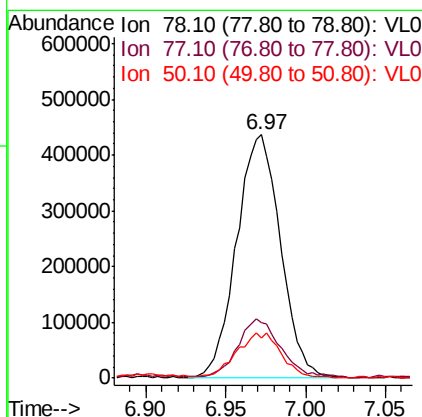
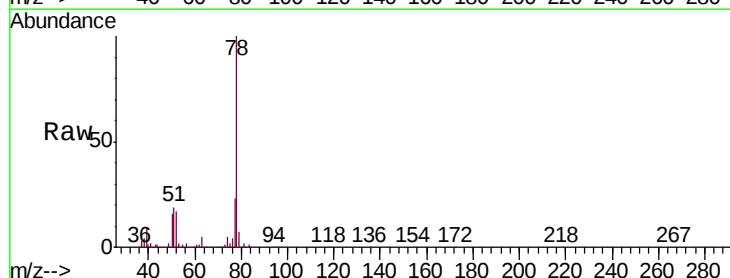
Instrument :
MSVOA_L
ClientSampled :
NVS-1

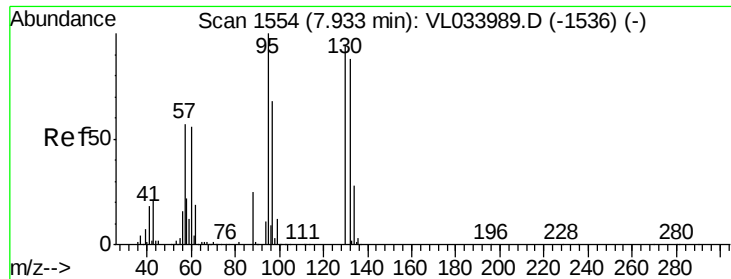
Tgt Ion: 43 Resp: 2617191
Ion Ratio Lower Upper
43 100
72 25.1 19.9 29.9



#36
Benzene
Concen: 3.612 ppbv
RT: 6.97 min Scan# 1255
Delta R.T. -0.01 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

Tgt Ion: 78 Resp: 818019
Ion Ratio Lower Upper
78 100
77 22.4 18.7 28.1
50 16.3 16.2 24.2





#38

Trichloroethene

Concen: 0.720 ppbv

RT: 7.93 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

NVS-1

Tgt Ion:130 Resp: 72523

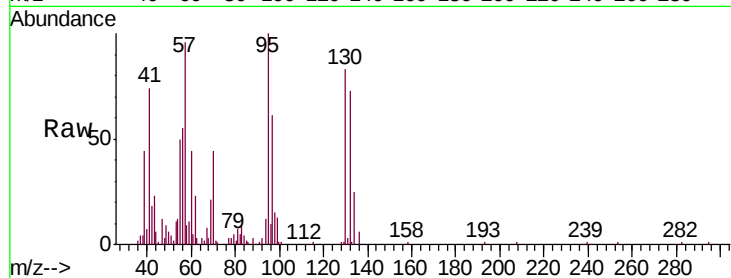
Ion Ratio Lower Upper

130 100

95 121.1 85.5 128.3

132 88.0 75.1 112.7

97 72.0 58.1 87.1

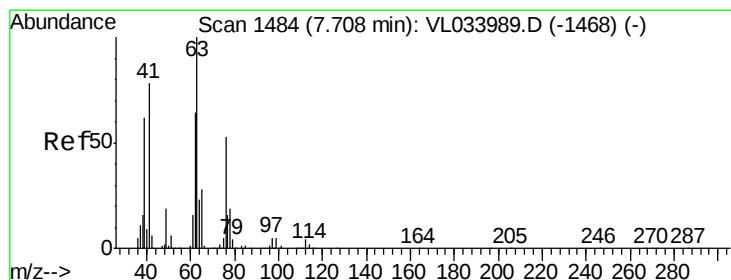
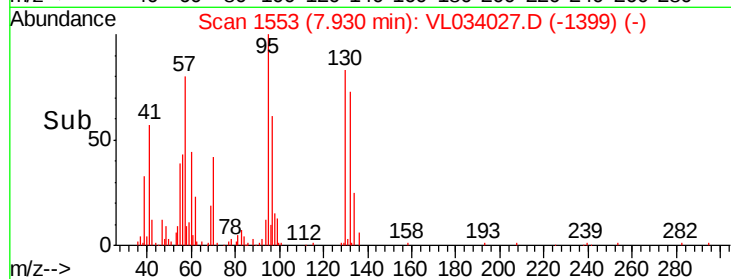
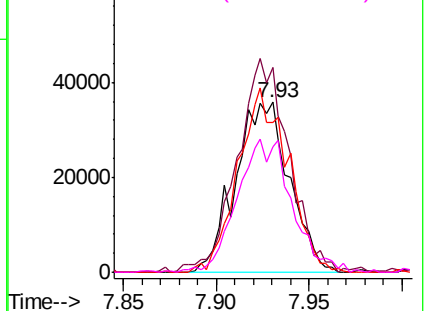


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 8.474 ppbv

RT: 7.26 min Scan# 1345

Delta R.T. -0.45 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

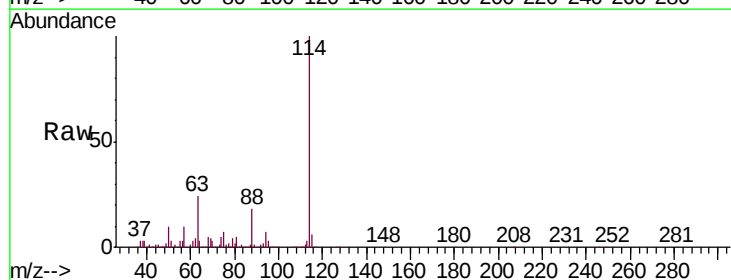
Tgt Ion: 63 Resp: 713599

Ion Ratio Lower Upper

63 100

41 0.0 62.3 93.5#

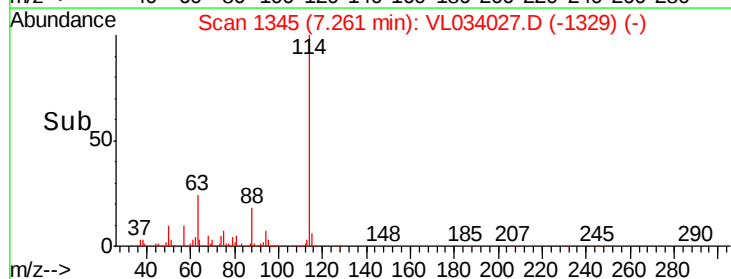
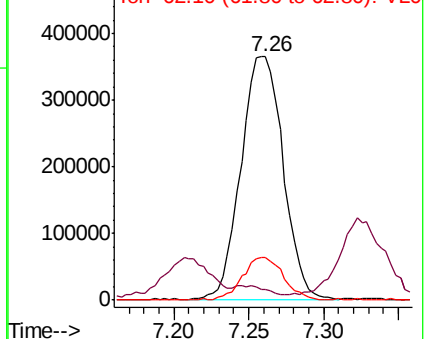
62 17.5 51.4 77.2#

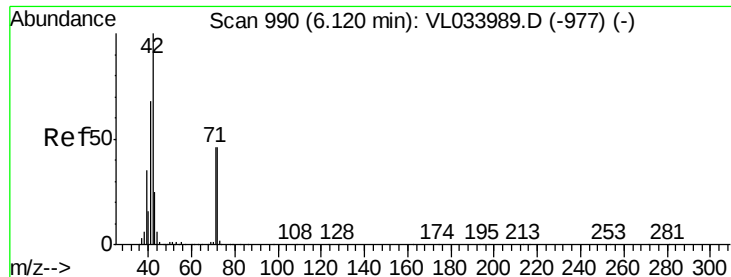


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

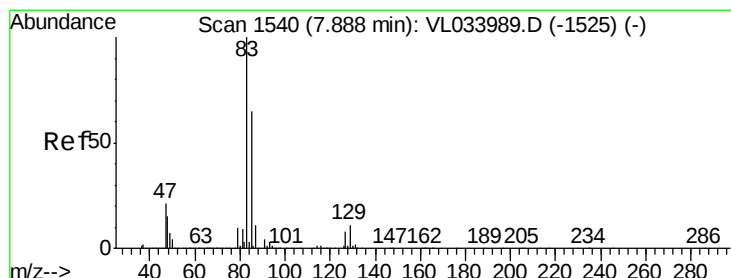
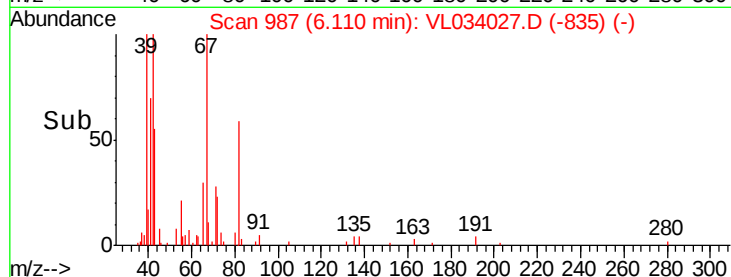
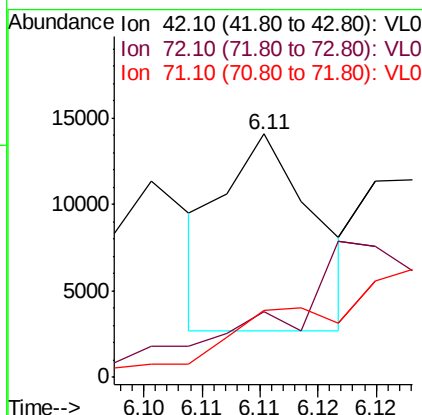
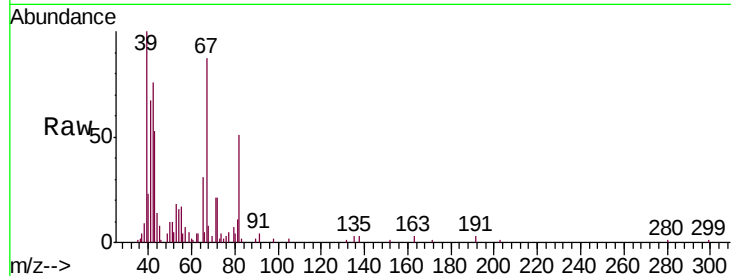




#41
Tetrahydrofuran
Concen: 0.082 ppbv
RT: 6.11 min Scan# 987
Delta R.T. -0.01 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

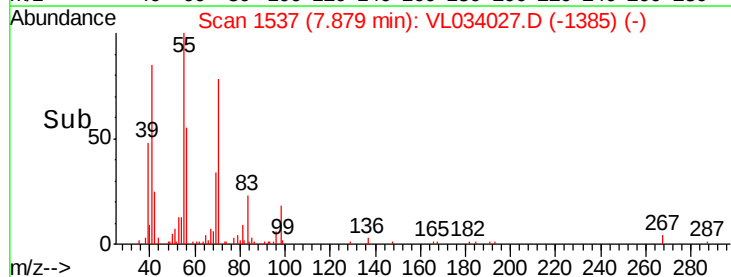
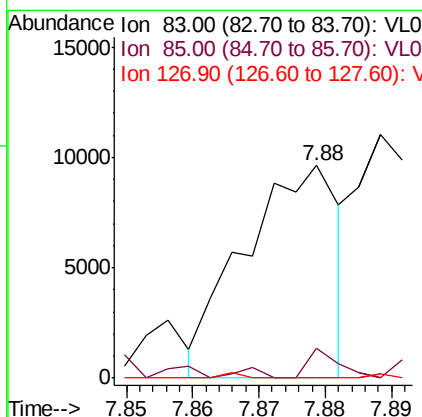
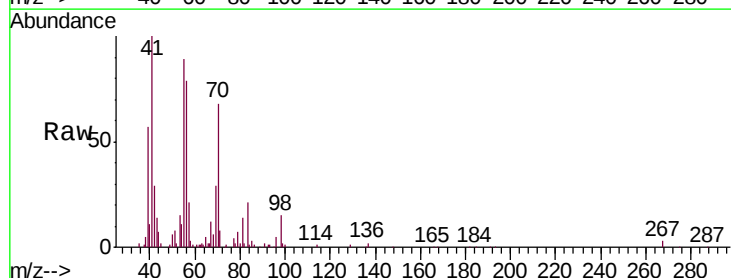
Instrument :
MSVOA_L
ClientSampleId :
NVS-1

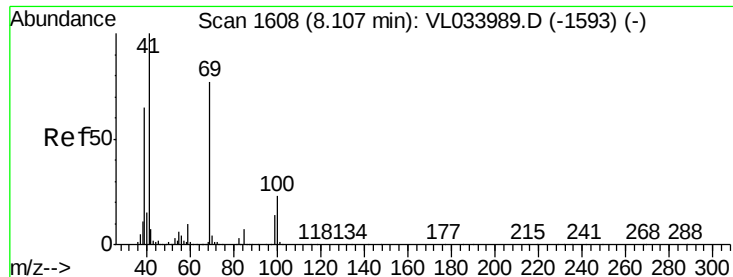
Tgt Ion: 42 Resp: 6193
Ion Ratio Lower Upper
42 100
72 229.9 37.3 55.9#
71 0.0 36.2 54.2#



#42
Bromodichloromethane
Concen: 0.043 ppbv
RT: 7.88 min Scan# 1537
Delta R.T. -0.01 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

Tgt Ion: 83 Resp: 9567
Ion Ratio Lower Upper
83 100
85 10.1 51.8 77.8#
127 0.0 6.5 9.7#

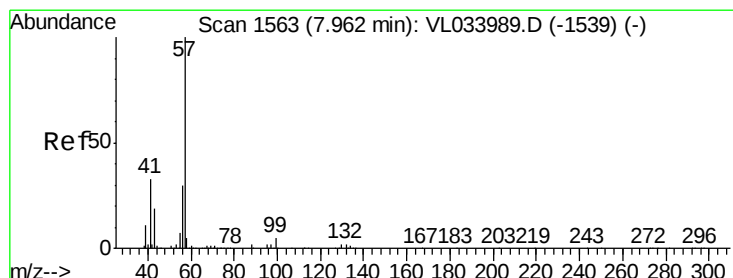
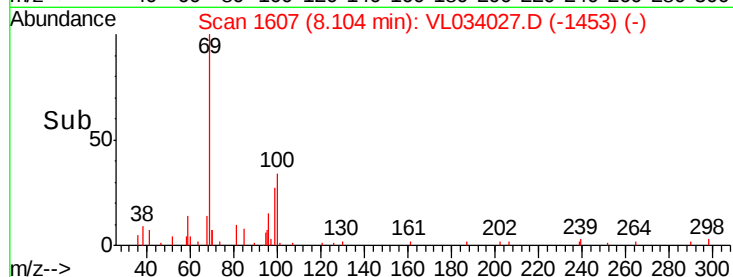
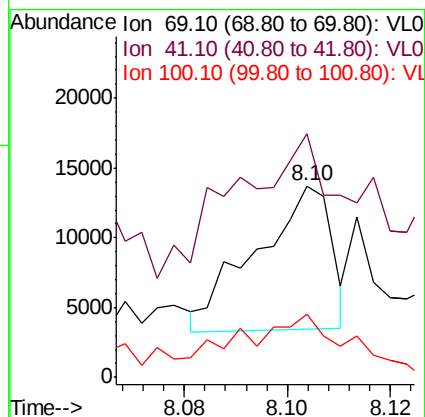
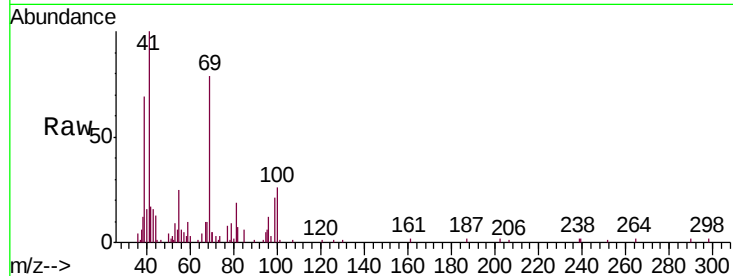




#43
Methyl Methacrylate
Concen: 0.120 ppbv
RT: 8.10 min Scan# 1607
Delta R.T. -0.00 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

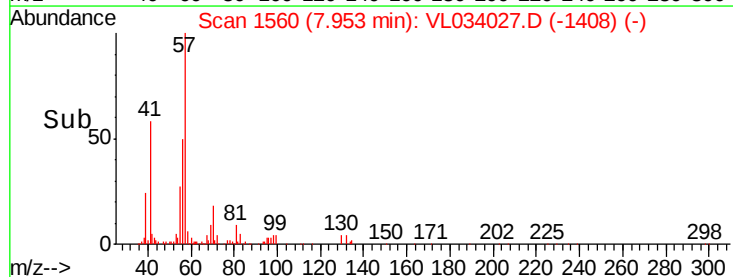
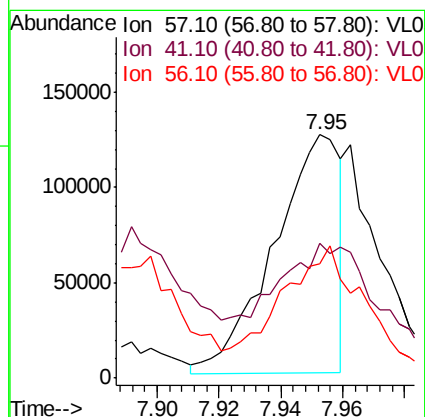
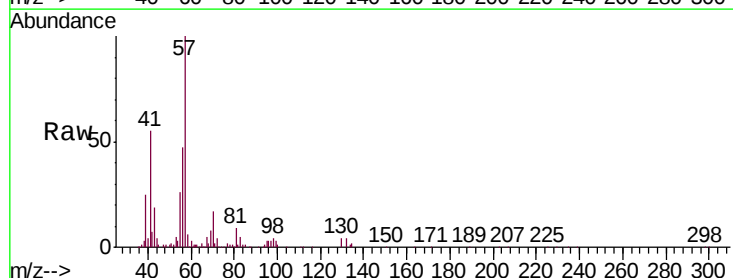
Instrument :
MSVOA_L
ClientSampleId :
NVS-1

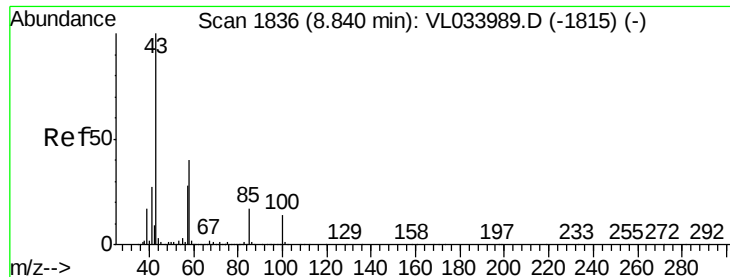
Tgt Ion: 69 Resp: 10333
Ion Ratio Lower Upper
69 100
41 0.0 109.1 163.7#
100 66.0 25.3 37.9#



#44
2,2,4-Trimethylpentane
Concen: 0.476 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

Tgt Ion: 57 Resp: 186069
Ion Ratio Lower Upper
57 100
41 93.0 26.1 39.1#
56 69.6 24.4 36.6#

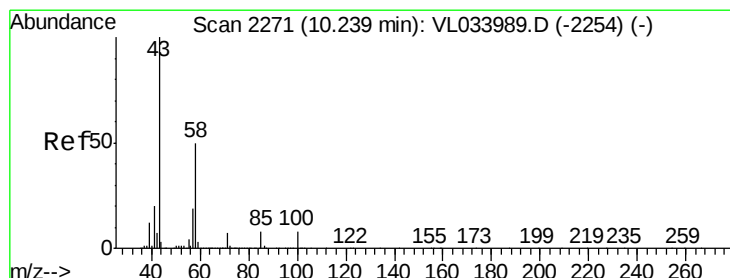
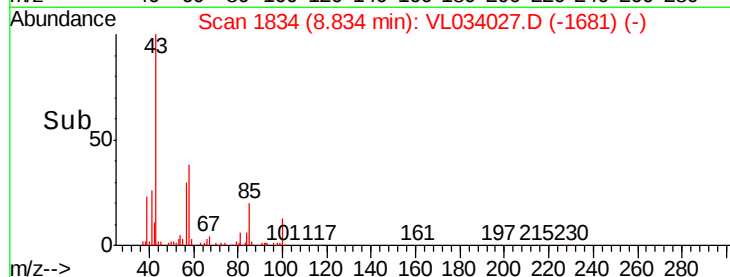
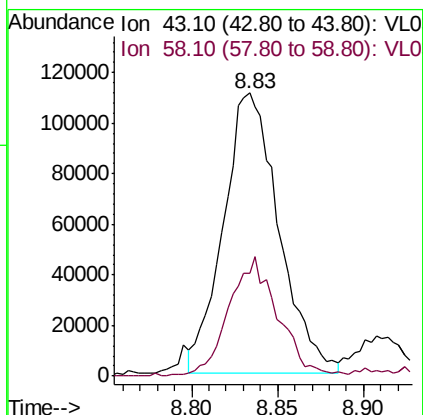
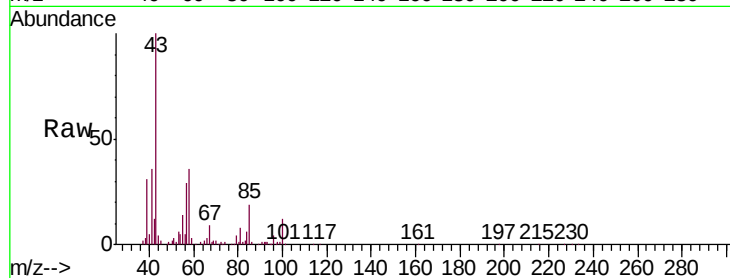




#50
 4-Methyl-2-Pentanone
 Concen: 1.098 ppbv
 RT: 8.83 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

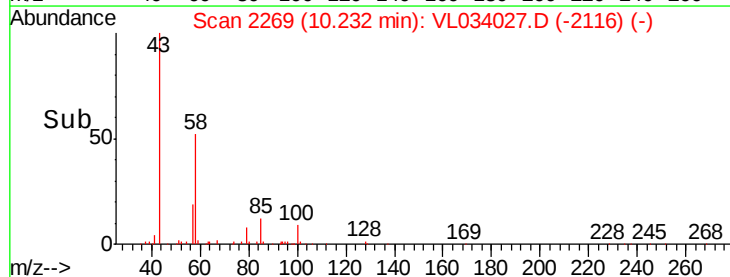
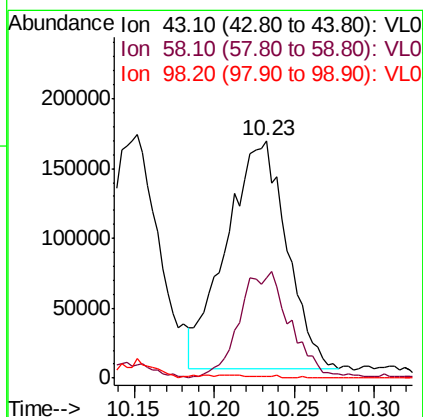
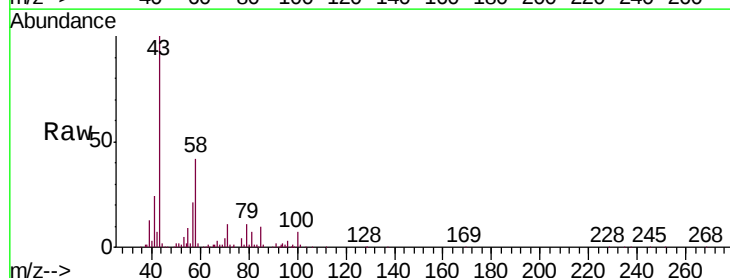
Instrument :
 MSVOA_L
 ClientSampleId :
 NVS-1

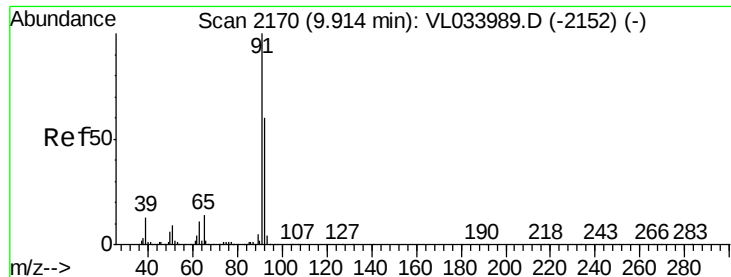
Tgt Ion: 43 Resp: 249501
 Ion Ratio Lower Upper
 43 100
 58 37.5 30.3 45.5



#51
 2-Hexanone
 Concen: 2.302 ppbv
 RT: 10.23 min Scan# 2269
 Delta R.T. -0.01 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

Tgt Ion: 43 Resp: 421973
 Ion Ratio Lower Upper
 43 100
 58 39.4 41.0 61.4#
 98 1.4 0.2 0.2#





#53

Toluene

Concen: 17.124 ppbv

RT: 9.91 min Scan# 2168

Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

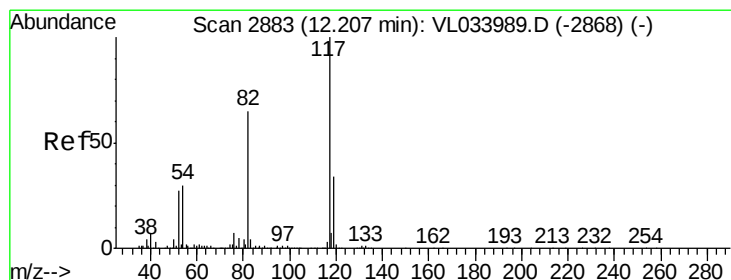
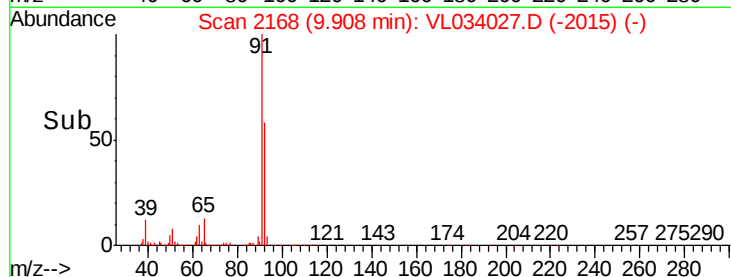
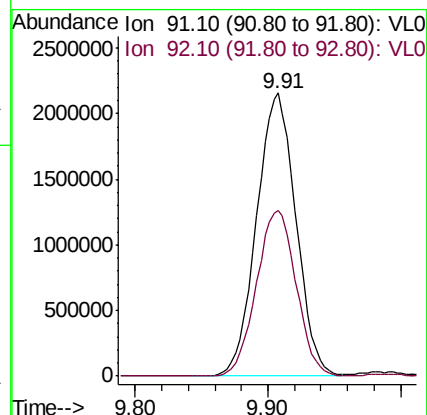
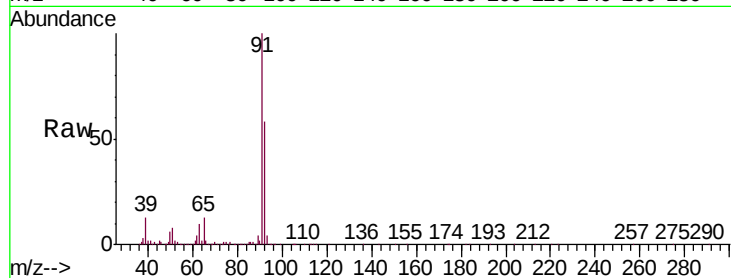
NVS-1

Tgt Ion: 91 Resp: 4439160

Ion Ratio Lower Upper

91 100

92 59.2 47.7 71.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.20 min Scan# 2881

Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

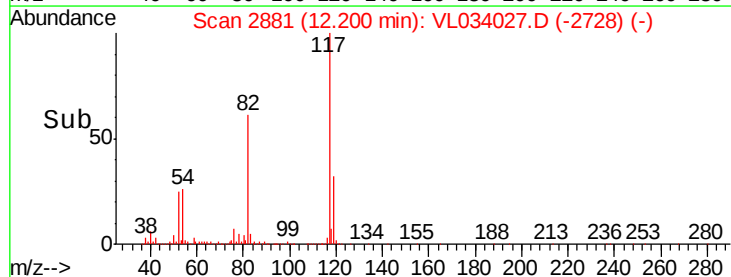
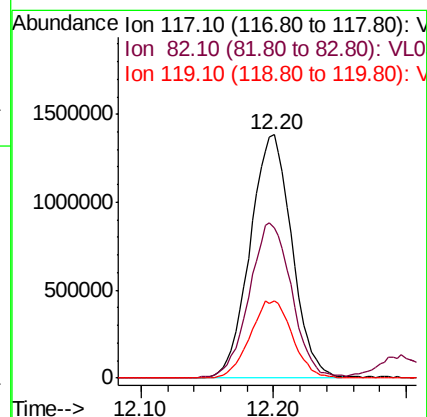
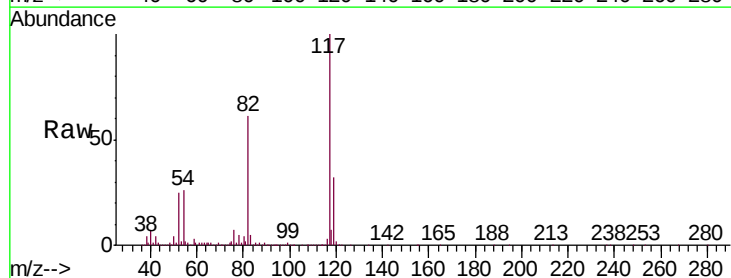
Tgt Ion: 117 Resp: 3036252

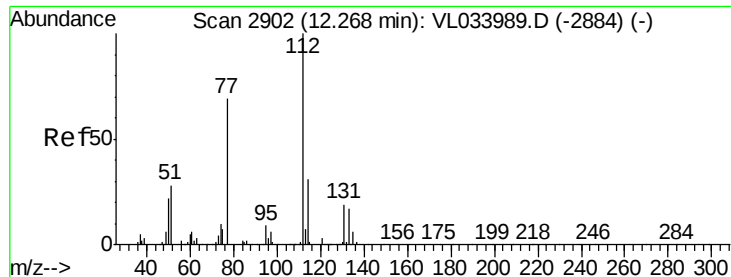
Ion Ratio Lower Upper

117 100

82 65.1 50.8 76.2

119 32.6 24.0 36.0





#57

Chlorobenzene

Concen: 0.073 ppbv

RT: 12.26 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

NVS-1

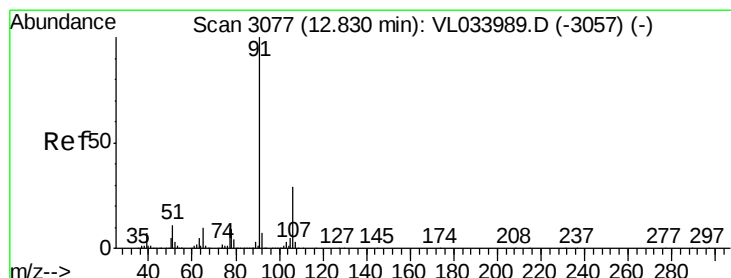
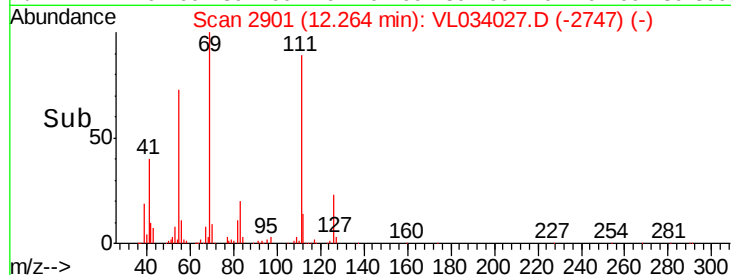
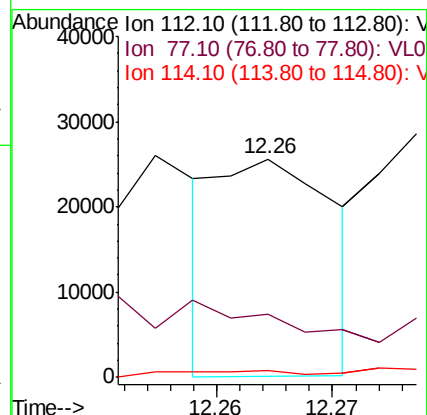
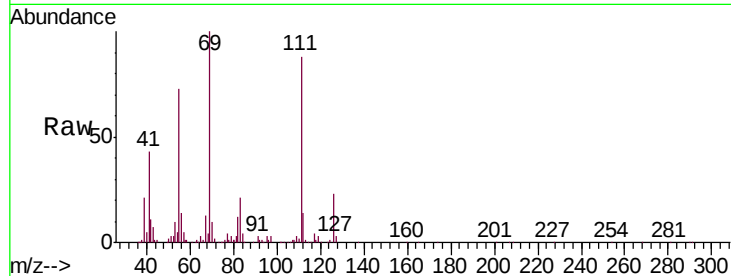
Tgt Ion: 112 Resp: 17651

Ion Ratio Lower Upper

112 100

77 30.7 55.9 83.9#

114 3.4 27.6 33.8#



#58

Ethyl Benzene

Concen: 3.554 ppbv

RT: 12.82 min Scan# 3074

Delta R.T. -0.01 min

Lab File: VL034027.D

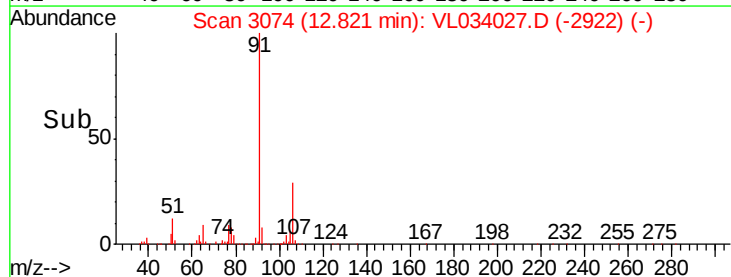
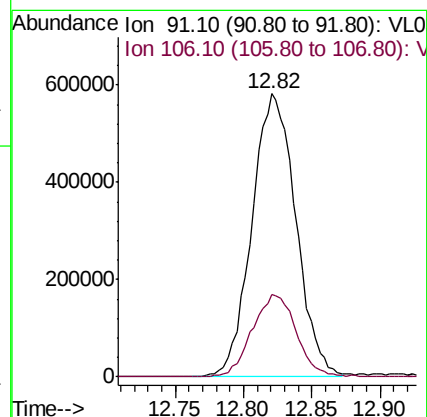
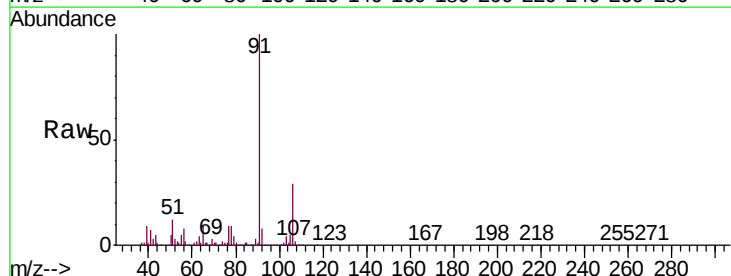
Acq: 11 Jul 2019 21:25

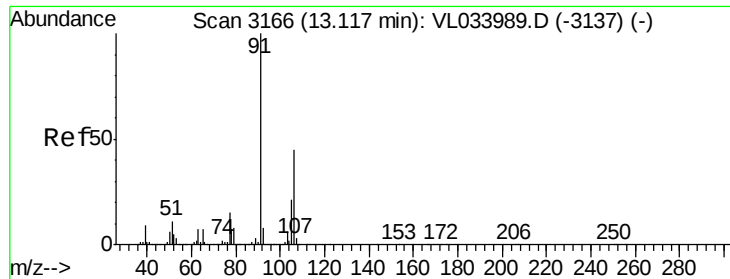
Tgt Ion: 91 Resp: 1297591

Ion Ratio Lower Upper

91 100

106 29.3 23.3 34.9





#59

m/p-Xylene

Concen: 13.122 ppbv

RT: 13.08 min Scan# 3155

Delta R.T. -0.04 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

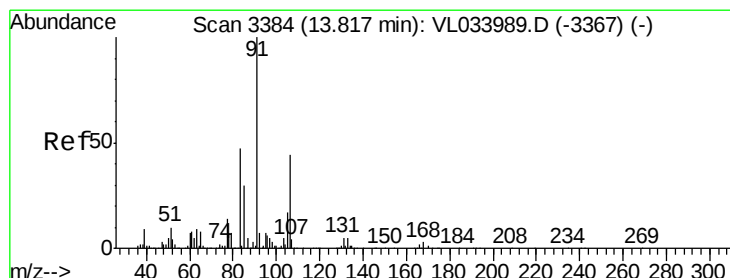
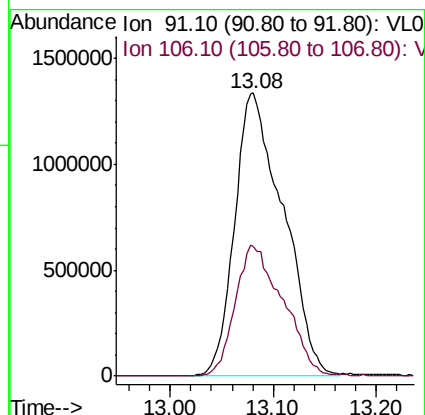
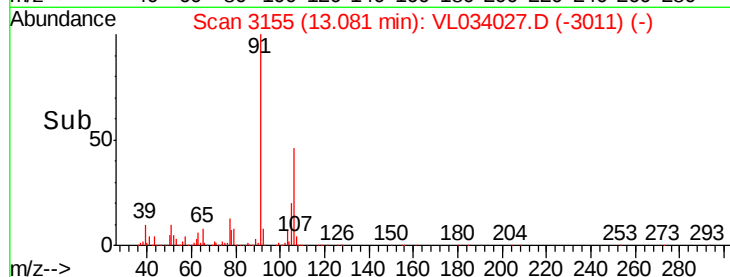
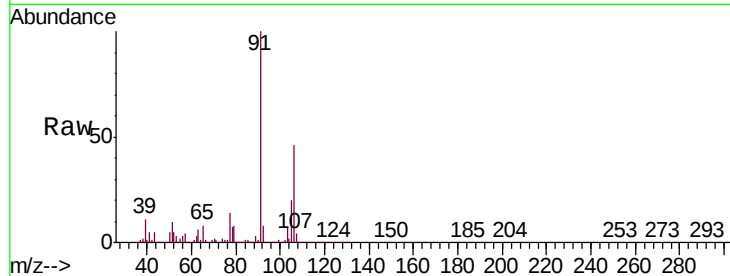
NVS-1

Tgt Ion: 91 Resp: 4338126

Ion Ratio Lower Upper

91 100

106 46.0 35.7 53.5



#60

o-Xylene

Concen: 4.643 ppbv

RT: 13.81 min Scan# 3381

Delta R.T. -0.01 min

Lab File: VL034027.D

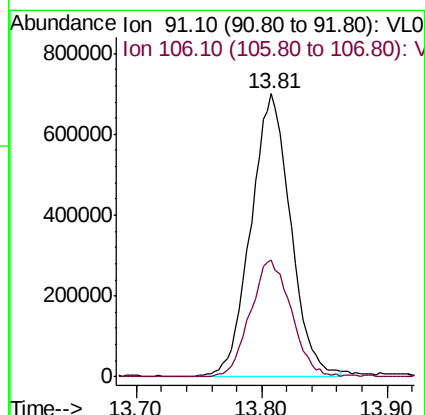
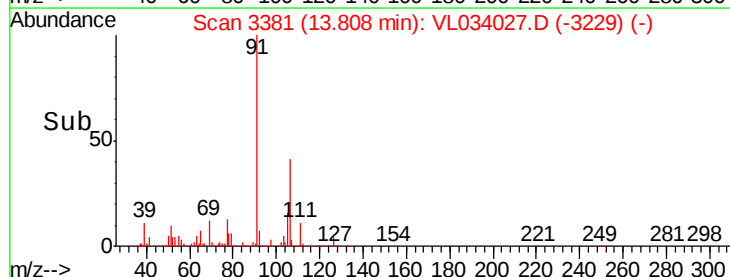
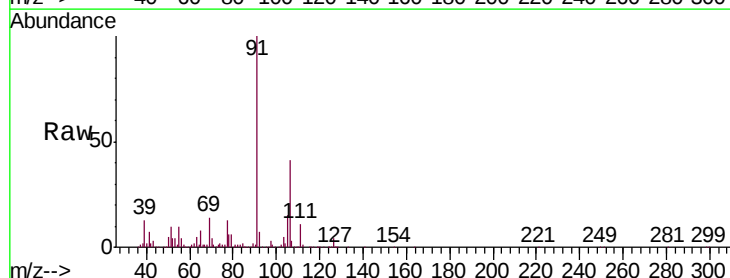
Acq: 11 Jul 2019 21:25

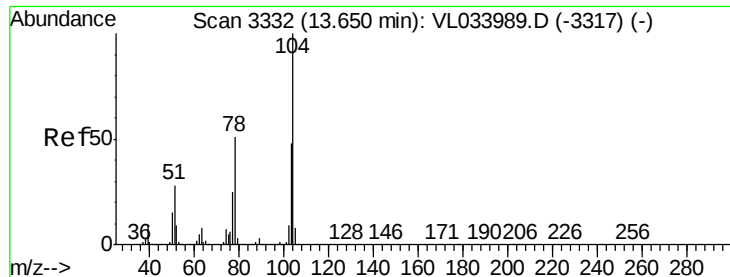
Tgt Ion: 91 Resp: 1535640

Ion Ratio Lower Upper

91 100

106 43.3 21.9 65.7





#61

Styrene

Concen: 0.138 ppbv

RT: 13.65 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

NVS-1

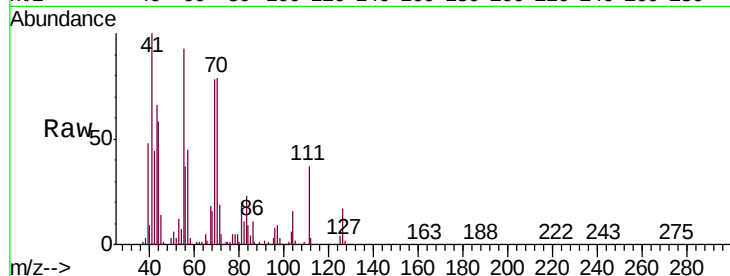
Tgt Ion:104 Resp: 30213

Ion Ratio Lower Upper

104 100

78 0.0 43.9 65.9#

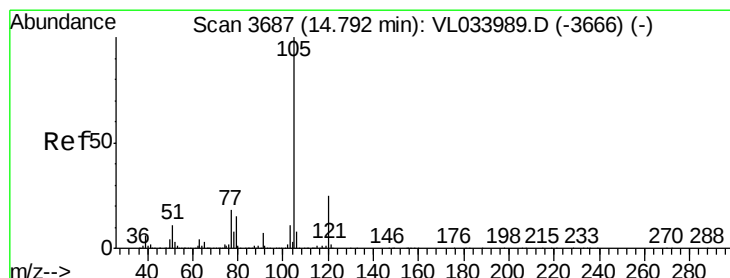
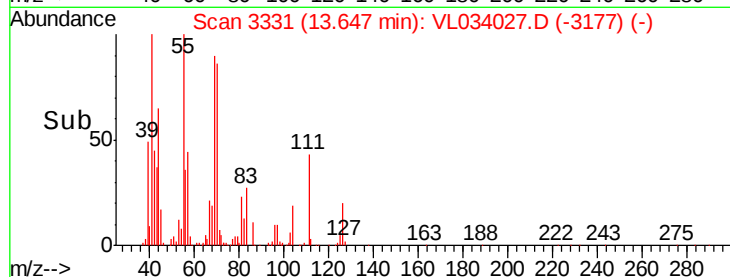
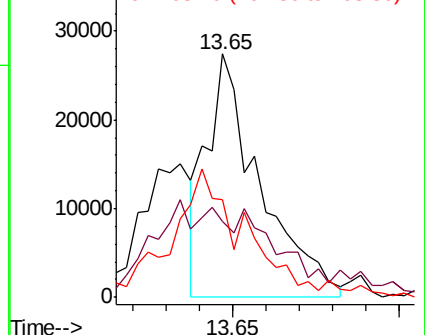
103 84.1 38.1 57.1#



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: 0.107 ppbv

RT: 14.79 min Scan# 3686

Delta R.T. -0.00 min

Lab File: VL034027.D

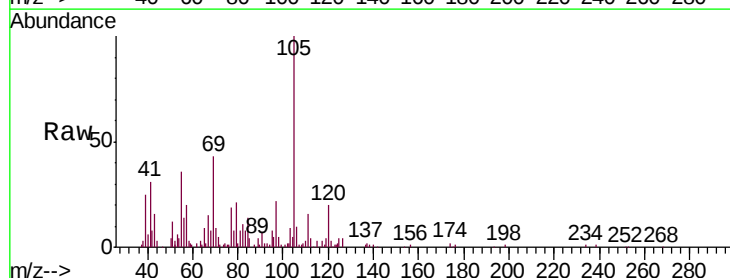
Acq: 11 Jul 2019 21:25

Tgt Ion:105 Resp: 54364

Ion Ratio Lower Upper

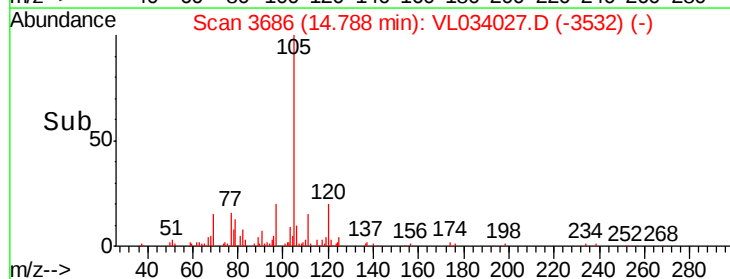
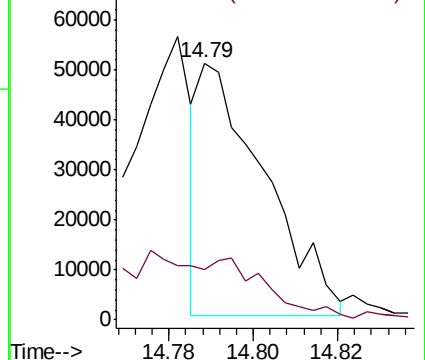
105 100

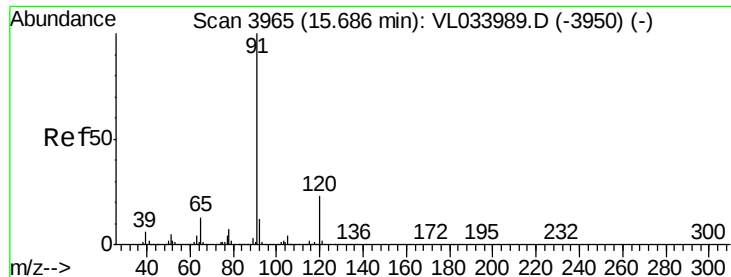
120 0.0 20.4 30.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.537 ppbv

RT: 15.68 min Scan# 3963

Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampleId :

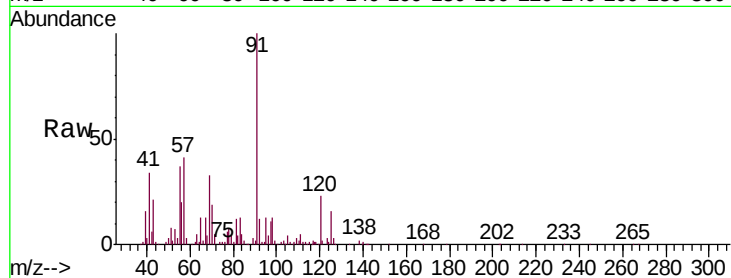
NVS-1

Tgt Ion:120 Resp: 70823

Ion Ratio Lower Upper

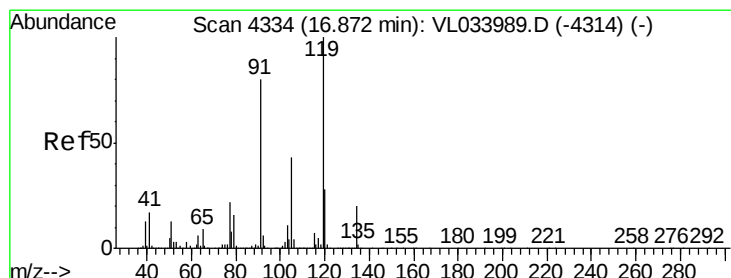
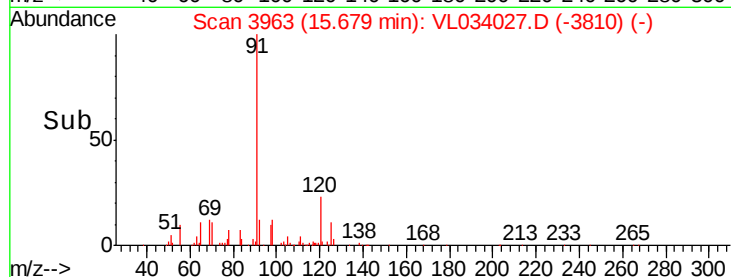
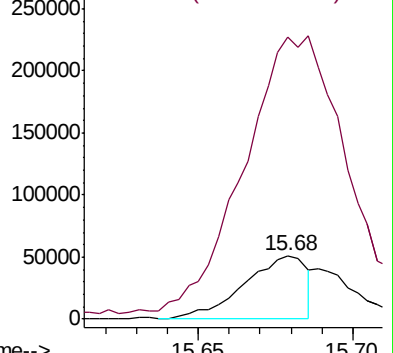
120 100

91 0.0 386.6 579.8#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.517 ppbv

RT: 16.88 min Scan# 4337

Delta R.T. 0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

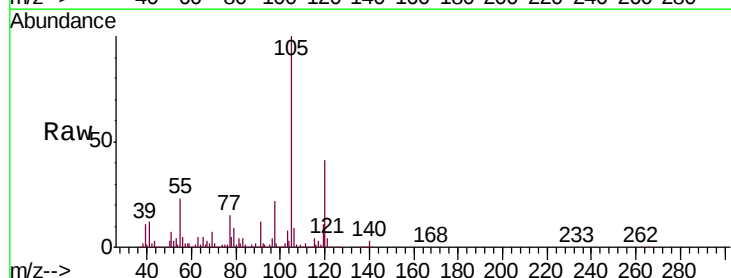
Tgt Ion:119 Resp: 223357

Ion Ratio Lower Upper

119 100

91 102.5 67.0 100.6#

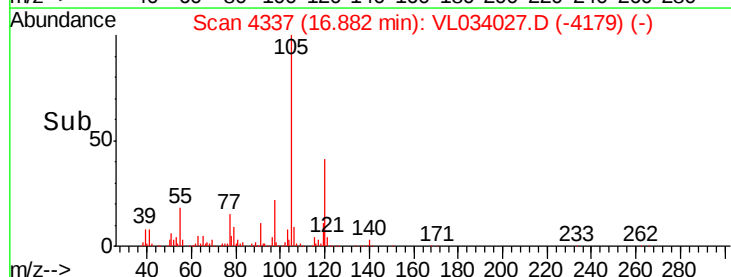
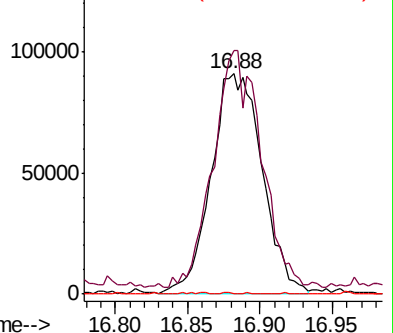
134 0.0 15.8 23.6#

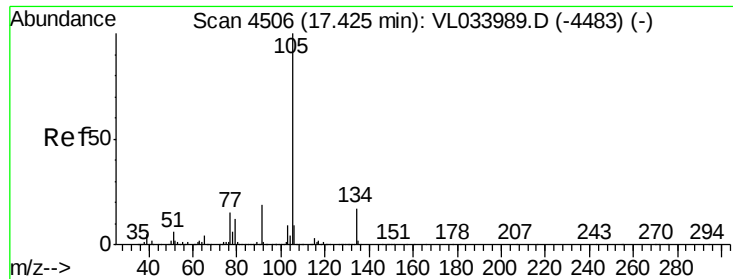


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

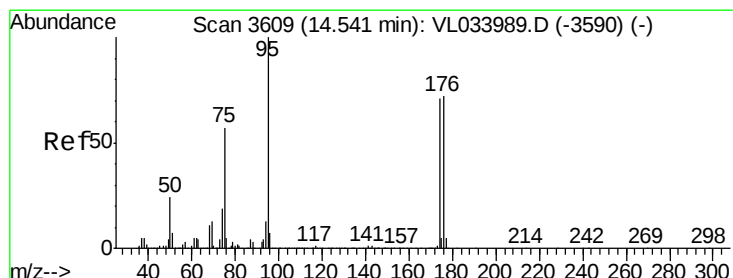
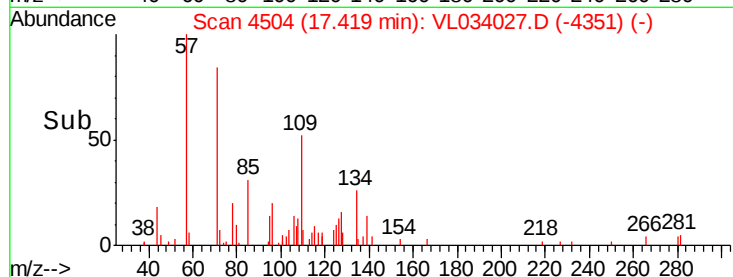
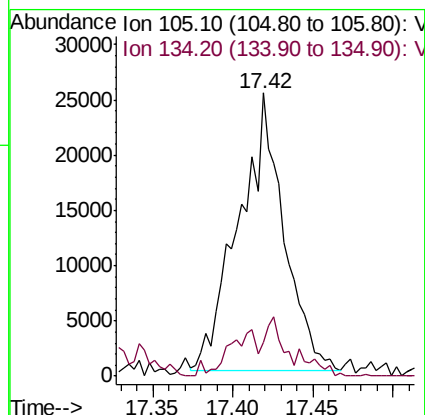
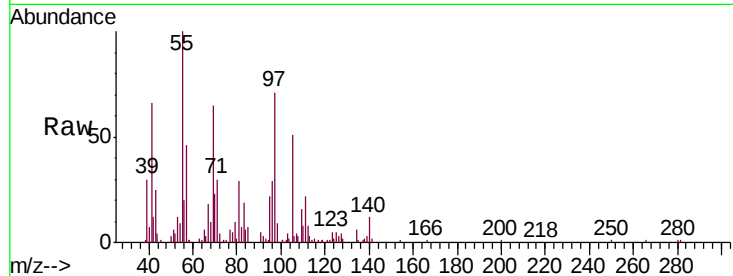




#67
 sec-Butylbenzene
 Concen: 0.080 ppbv
 RT: 17.42 min Scan# 4504
 Delta R.T. -0.01 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

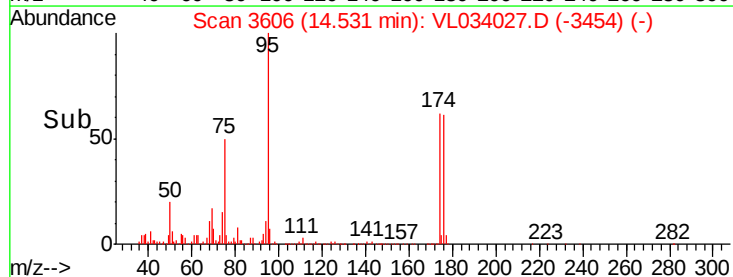
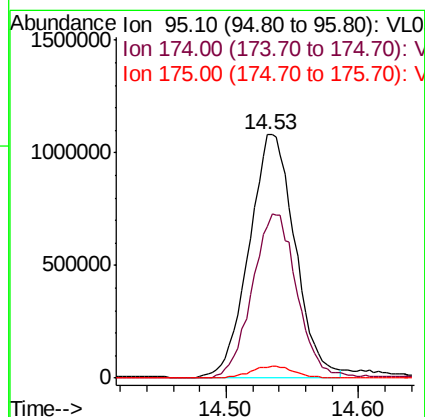
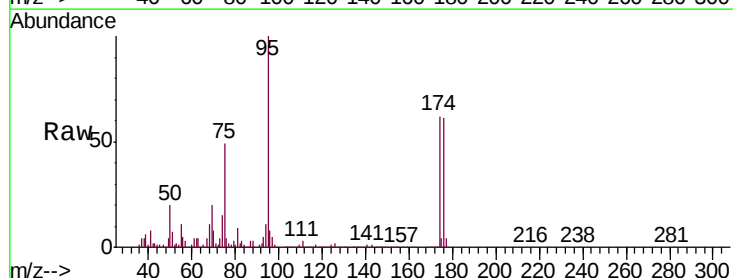
Instrument :
 MSVOA_L
 ClientSampleId :
 NVS-1

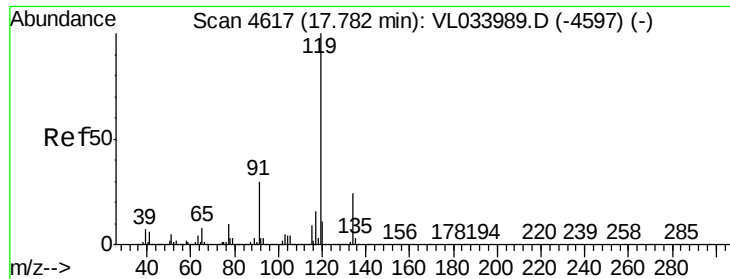
Tgt Ion: 105 Resp: 48480
 Ion Ratio Lower Upper
 105 100
 134 22.6 14.7 22.1#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.979 ppbv
 RT: 14.53 min Scan# 3606
 Delta R.T. -0.01 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

Tgt Ion: 95 Resp: 2584037
 Ion Ratio Lower Upper
 95 100
 174 67.3 60.5 90.7
 175 4.8 4.0 6.0

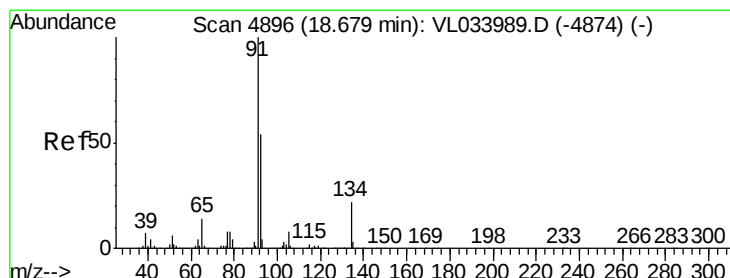
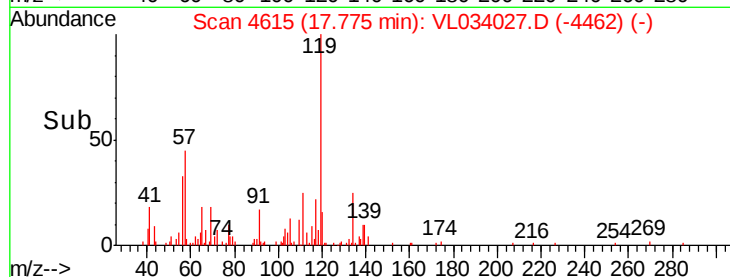
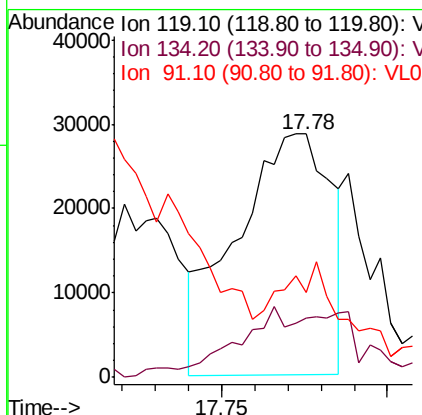
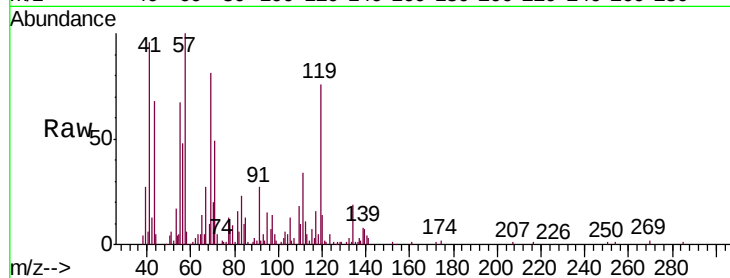




#69
p-Isopropyltoluene
Concen: 0.114 ppbv
RT: 17.78 min Scan# 4615
Delta R.T. -0.01 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

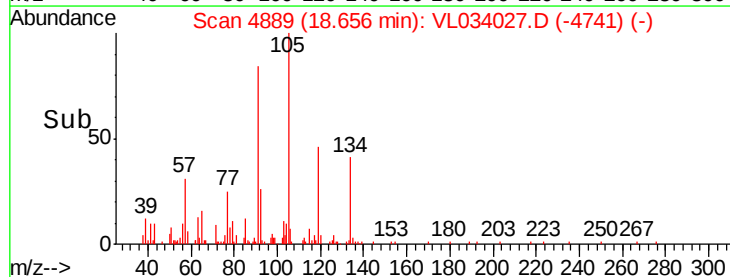
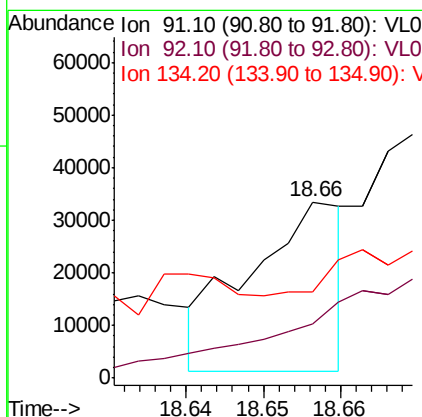
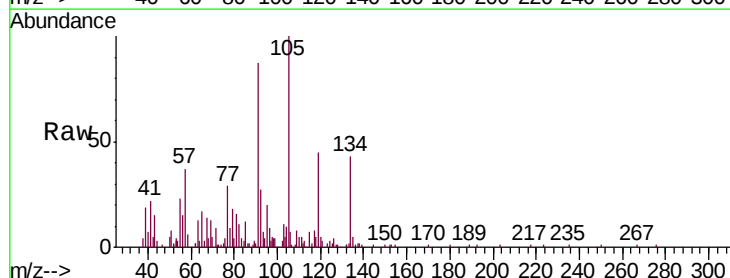
Instrument :
MSVOA_L
ClientSampleId :
NVS-1

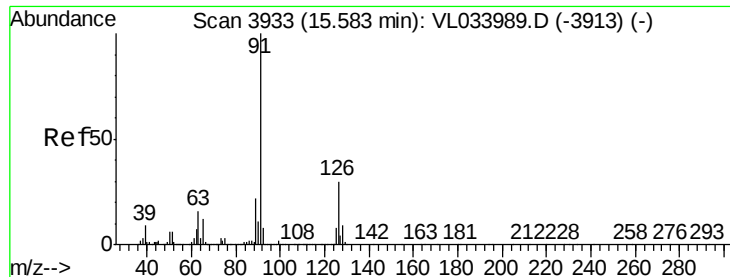
Tgt Ion	Ratio	Lower	Upper
119	100		
134	36.5	20.1	30.1#
91	0.0	23.6	35.4#



#70
n-Butylbenzene
Concen: 0.052 ppbv
RT: 18.66 min Scan# 4889
Delta R.T. -0.02 min
Lab File: VL034027.D
Acq: 11 Jul 2019 21:25

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	42.0	63.0#
134	0.0	17.9	26.9#

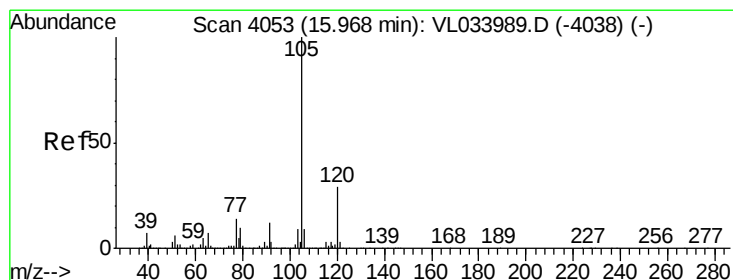
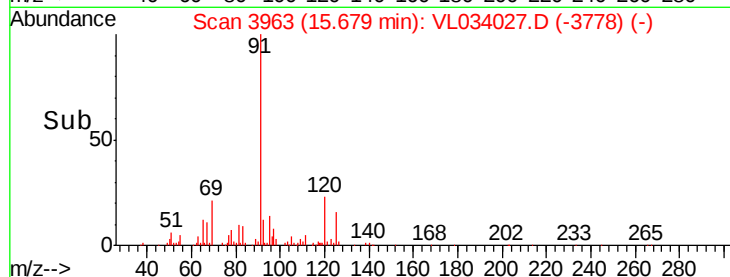
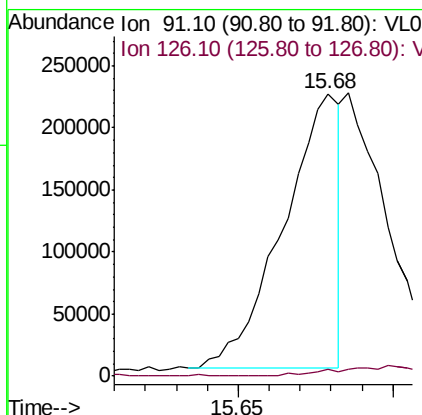
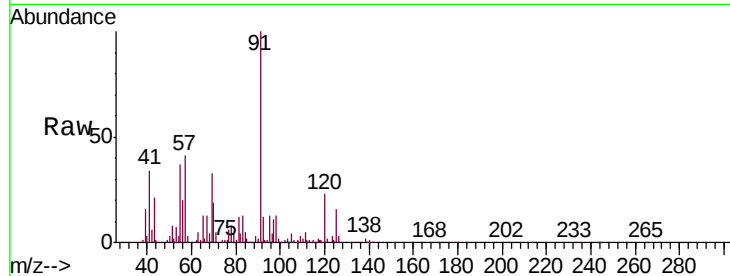




#71
 2-Chlorotoluene
 Concen: 0.756 ppbv
 RT: 15.68 min Scan# 3963
 Delta R.T. 0.10 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

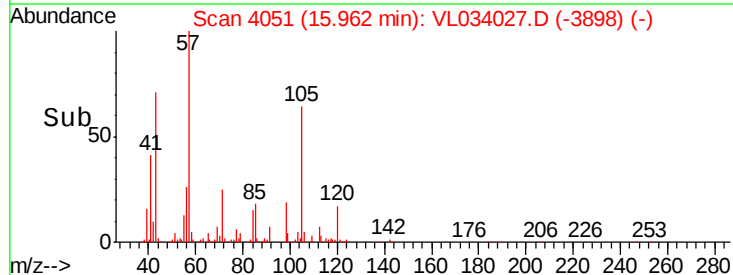
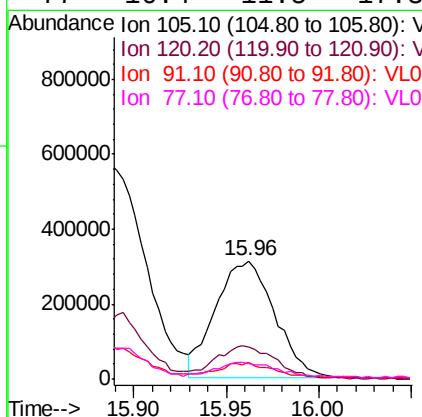
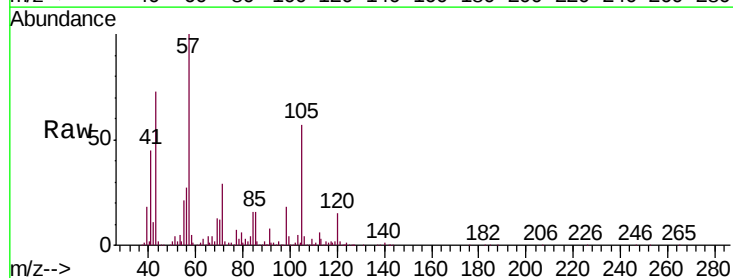
Instrument :
 MSVOA_L
 ClientSampled :
 NVS-1

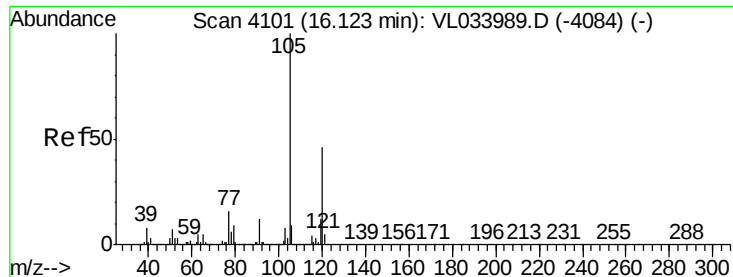
Tgt Ion: 91 Resp: 281175
 Ion Ratio Lower Upper
 91 100
 126 0.0 12.3 49.3#



#72
 4-Ethyltoluene
 Concen: 1.620 ppbv
 RT: 15.96 min Scan# 4051
 Delta R.T. -0.01 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

Tgt Ion: 105 Resp: 687898
 Ion Ratio Lower Upper
 105 100
 120 30.3 24.1 36.1
 91 12.0 10.6 16.0
 77 16.4 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 0.885 ppbv

RT: 16.12 min Scan# 4099

Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Instrument :

MSVOA_L

ClientSampled :

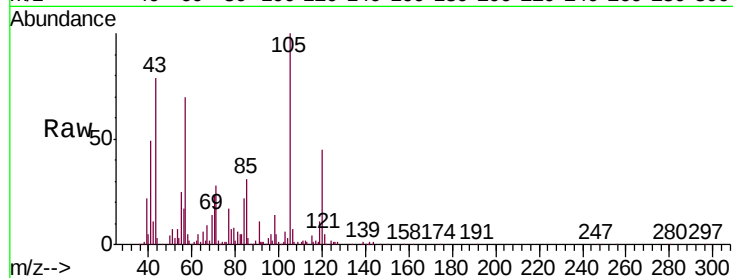
NVS-1

Tgt Ion:105 Resp: 349877

Ion Ratio Lower Upper

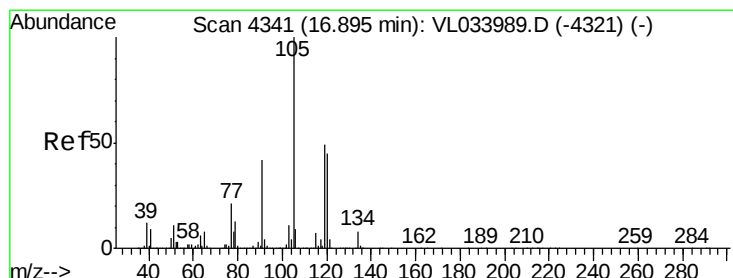
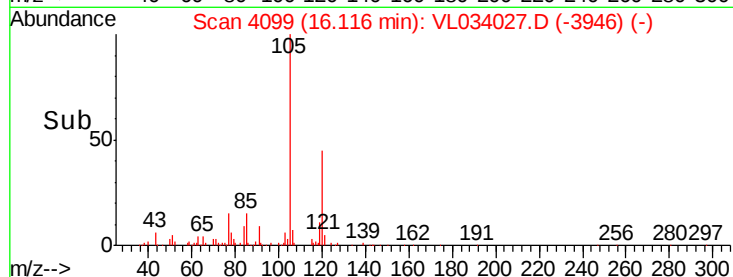
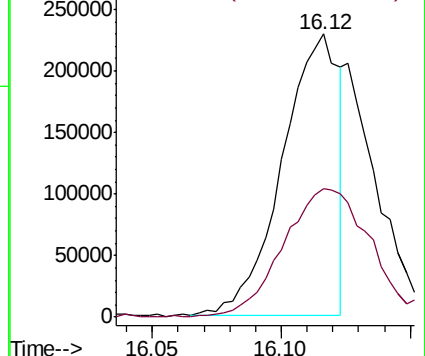
105 100

120 45.0 36.4 54.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 4.560 ppbv

RT: 16.88 min Scan# 4338

Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Tgt Ion:105 Resp: 1995914

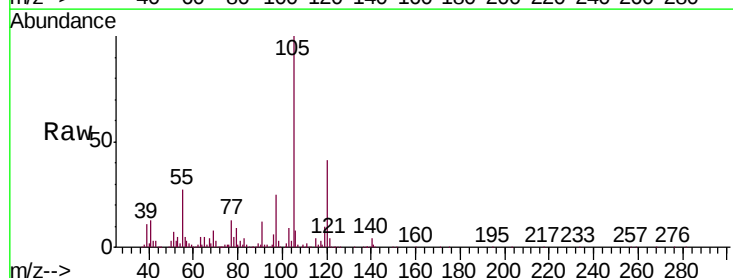
Ion Ratio Lower Upper

105 100

120 41.3 36.2 54.2

91 11.3 34.3 51.5#

77 12.9 17.1 25.7#

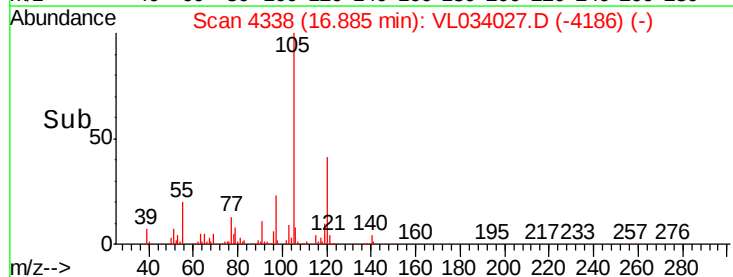
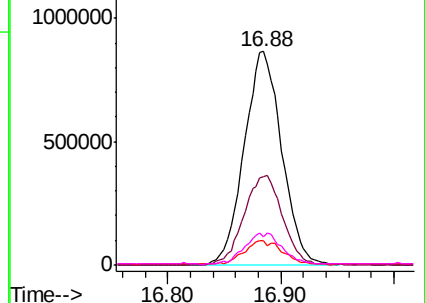


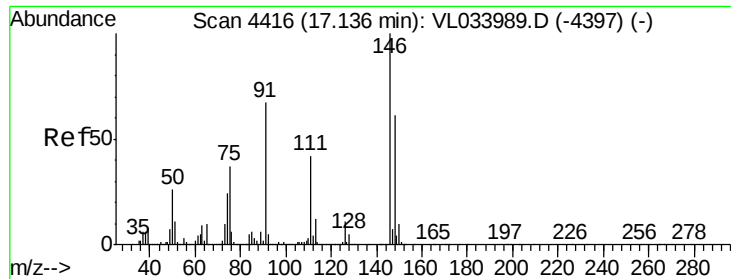
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.032 ppbv

RT: 17.12 min Scan# 4412

Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

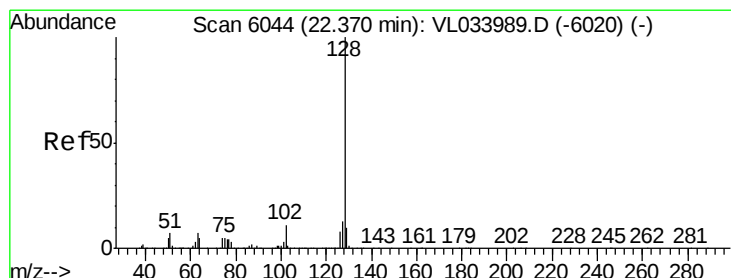
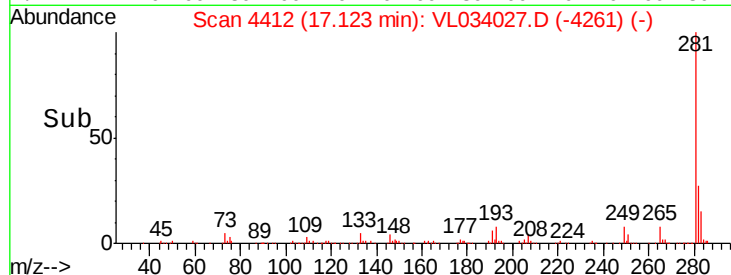
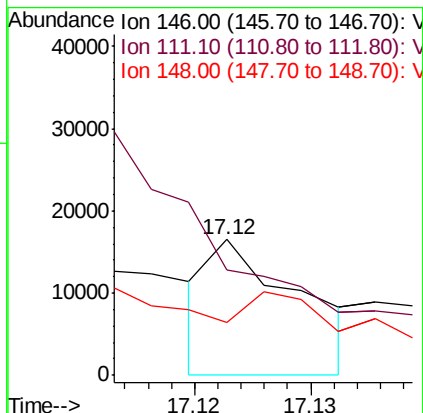
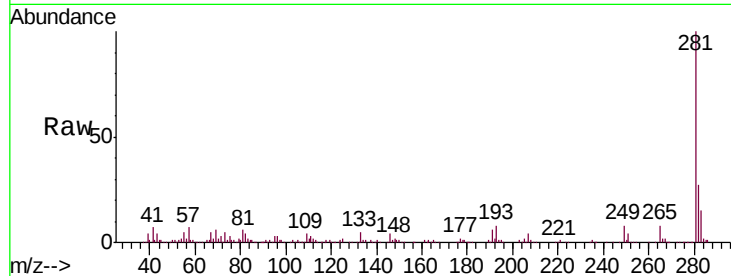
Instrument :

MSVOA_L

ClientSampleId :

NVS-1

Tgt Ion:	146	Resp:	8886
Ion Ratio	Lower	Upper	
146	100		
111	0.0	22.3	66.9#
148	0.0	32.0	96.2#



#79

Naphthalene

Concen: 0.586 ppbv

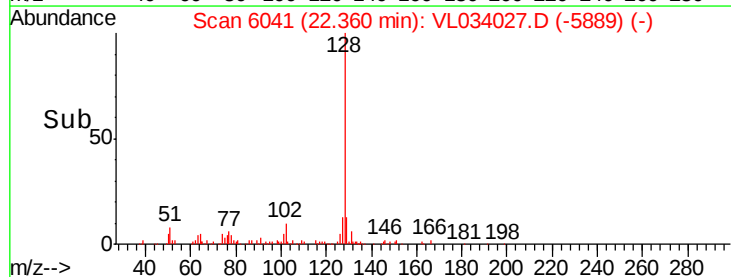
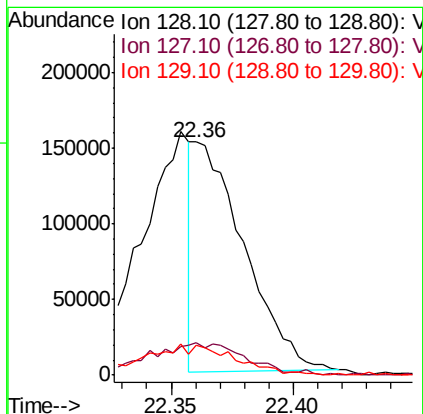
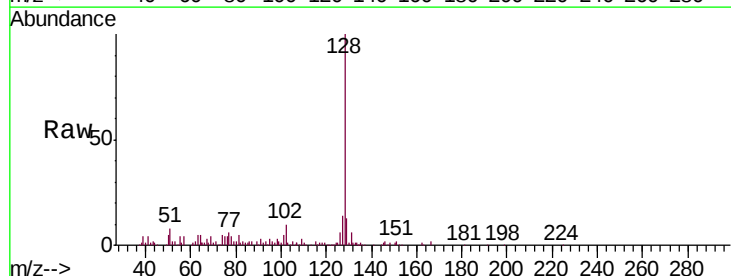
RT: 22.36 min Scan# 6041

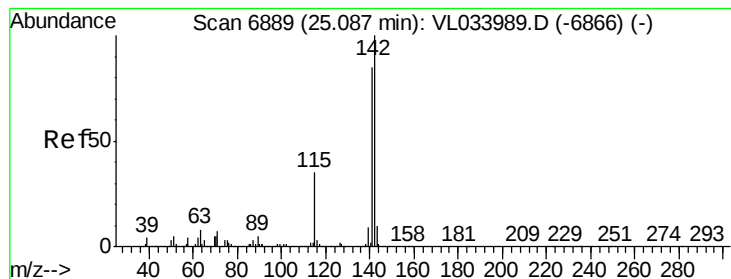
Delta R.T. -0.01 min

Lab File: VL034027.D

Acq: 11 Jul 2019 21:25

Tgt Ion:	128	Resp:	215699
Ion Ratio	Lower	Upper	
128	100		
127	14.1	10.6	15.8
129	12.8	8.3	12.5#





#80
 Naphthalene, 2-methyl-
 Concen: 0.689 ppbv
 RT: 25.08 min Scan# 6887
 Delta R.T. -0.01 min
 Lab File: VL034027.D
 Acq: 11 Jul 2019 21:25

Instrument :
 MSVOA_L
 ClientSampleId :
 NVS-1

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.0	68.2	102.2
115	48.1	29.9	44.9

